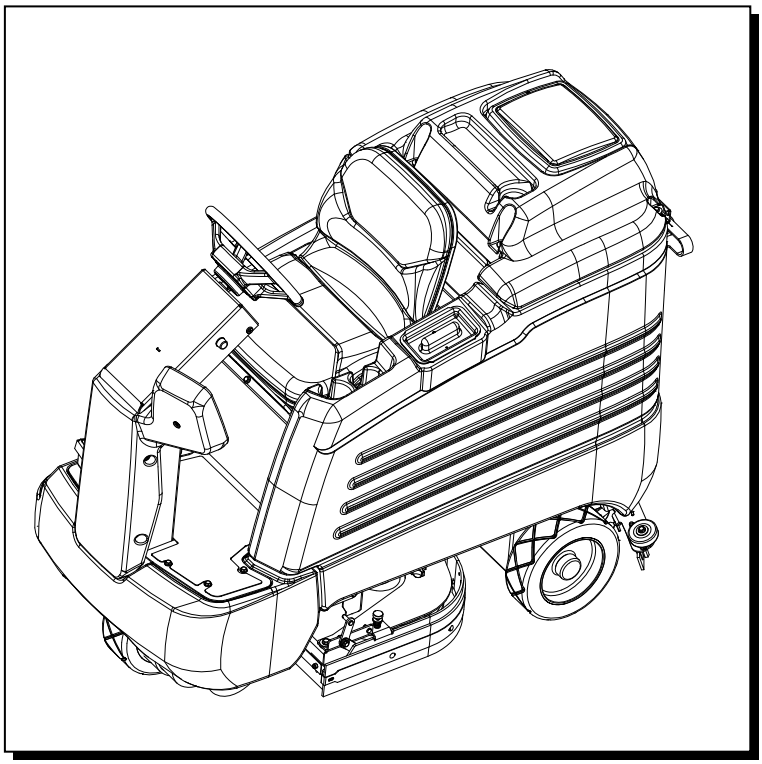
SABER™

GLIDE

WINDSOR®

SCRUBBER



Operating Instructions

MODELS: ***SGJ32***
10052530
AFTER SN: ***1000136404***

QUEST® . . . for Continuous Improvement.
Windsor's Quality Management System is Certified ISO 9001.

Read these instructions before using the machine

Y

86037680 01/27/12

PRV NO. 980230

MACHINE DATA LOG/OVERVIEW

MODEL _____

DATE OF PURCHASE _____

SERIAL NUMBER _____

SALES REPRESENTATIVE # _____

DEALER NAME _____

OPERATIONS GUIDE NUMBER _____

PUBLISHED _____

YOUR DEALER

Name: _____

Address: _____

Phone Number: _____

OVERVIEW

The Saber Glide is a battery powered, ride-on, hard floor scrubber intended for commercial use. The appliance applies a cleaning solution onto a hard floor, scrubs the floor with brushes or pads, and then vacuums the soiled water back into the recovery tank.

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HOW TO USE THIS MANUAL

This manual contains the following sections:

- HOW TO USE THIS MANUAL
- SAFETY
- OPERATIONS
- MAINTENANCE
- PARTS LIST

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized Windsor dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

MODEL _____

DATE OF PURCHASE _____

SERIAL NUMBER _____

SALES REPRESENTATIVE # _____

DEALER NAME _____

OPERATIONS GUIDE NUMBER _____

PUBLISHED _____

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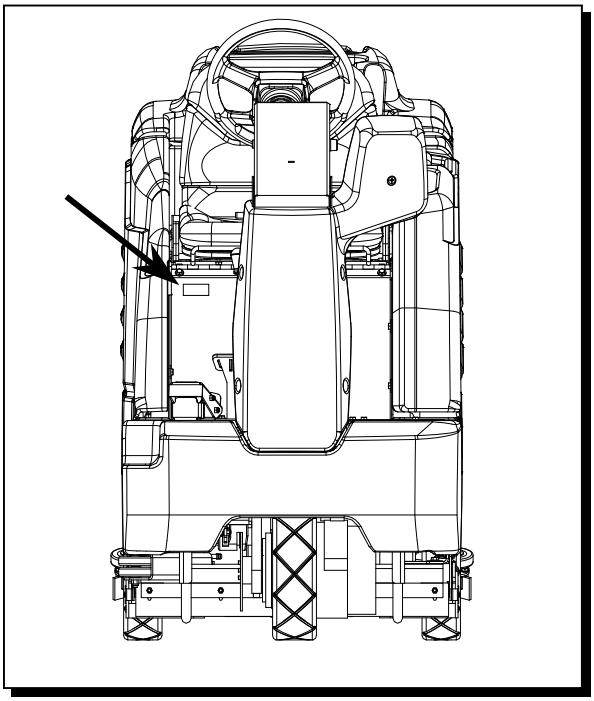
The model and serial number of your machine are located to the front of the battery compartment for the machine.



The SAFETY section contains important information regarding hazard or unsafe practices of the machine. Levels of hazards are identified that could result in product or personal injury, or severe injury resulting in death.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Batteries
- Scrub Brushes
- Adjusting Squeegee
- Service Schedule
- Machine Troubleshooting

The PARTS LIST section contains assembled parts illustrations and corresponding parts list. The parts lists include a number of columns of information:

- **REF –** column refers to the reference number on the parts illustration.
- **PART NO.** – column lists the part number for the part.
- **PRV NO.** – reference number
- **QTY** – column lists the quantity of the part used in that area of the machine.
- **DESCRIPTION** – column is a brief description of the part.
- **SERIAL NO. FROM** – If this column has an (*) and a Reference number, see the SERIAL NUMBERS page in the back of your manual. If column has two asterisk (**), call manufacturer for serial number. The serial number indicates the first machine the part number is applicable to. The main illustration shows the most current design of the machine. When a boxed illustration is shown, it displays the older design.
- **NOTES** – column for information not noted by the other columns.

NOTE: *If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.*

NOTE: *The number on the lower left corner of the front cover is the part number for this manual.*

IMPORTANT SAFETY INSTRUCTIONS

When using an battery powered appliance, basic precaution must always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.

⚠ WARNING: **To reduce the risk of fire, electric shock, or injury:**

Use only indoors. Do not use outdoors or expose to rain.

Use only as described in this manual. Use only manufacturer's recommended components and attachments.

If the machine is **not working properly**, has been dropped, damaged, left outdoors, or dropped into water, return it to an authorized service center.

Do not operate the machine with any openings blocked. Keep openings free of debris that may reduce airflow.

This machine **is not** suitable for picking up hazardous dust.

Machine can cause a fire when operating near flammable vapors or materials. Do not operate this machine near flammable fluids, dust or vapors.

This machine is suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices for more than normal housekeeping purposes.

Maintenance and repairs **must be done** by qualified personnel.

If foam or liquid comes out of machine, **switch off immediately**.

Disconnect battery before cleaning or servicing.

Before the machine is discarded, the batteries **must be removed** and properly disposed of.

Make sure all warning and caution labels **are legible and properly attached** to the machine.

During operation, attention shall be paid to other persons, especially children.

Before use all covers and doors shall be put in the positions specified in the instructions.

When leaving unattended, secure against unintentional movement.

The machine shall only be operated by instructed and authorized persons.

When leaving unattended, switch off or lock the main power switch to prevent unauthorized use.

Only chemicals recommended by the manufacturer shall be used.

This appliance has been designed for use with the brushes specified by the manufacturer. The fitting of other brushes may affect its safety.

SAVE THESE INSTRUCTIONS

HAZARD INTENSITY LEVEL

The following symbols are used throughout this guide as indicated in their descriptions:

HAZARD INTENSITY LEVEL

There are three levels of hazard intensity identified by signal words -**WARNING** and **CAUTION** and ***FOR SAFETY.*** The level of hazard intensity is determined by the following definitions:

⚠ WARNING

WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.

⚠ CAUTION

CAUTION - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

FOR SAFETY: To Identify actions which must be followed for safe operation of equipment.

Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition. Following is information that signals some potentially dangerous conditions to the operator or the equipment. Read this information carefully. Know when these conditions can exist. Locate all safety devices on the machine. Please take the necessary steps to train the machine operating personnel.

FOR SAFETY:

DO NOT OPERATE MACHINE:
Unless Trained and Authorized.
Unless Operation Guide is Read and understood.
In Flammable or Explosive areas.
In areas with possible falling objects.

WHEN SERVICING MACHINE:

Avoid moving parts. Do not wear loose clothing; jackets, shirts, or sleeves when working on the machine. Use Windsor approved replacement parts.

⚠ WARNING

Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away. Keep solution tank in raised position when charging. Keep sparks and flames away from the batteries. Do not smoke around batteries.

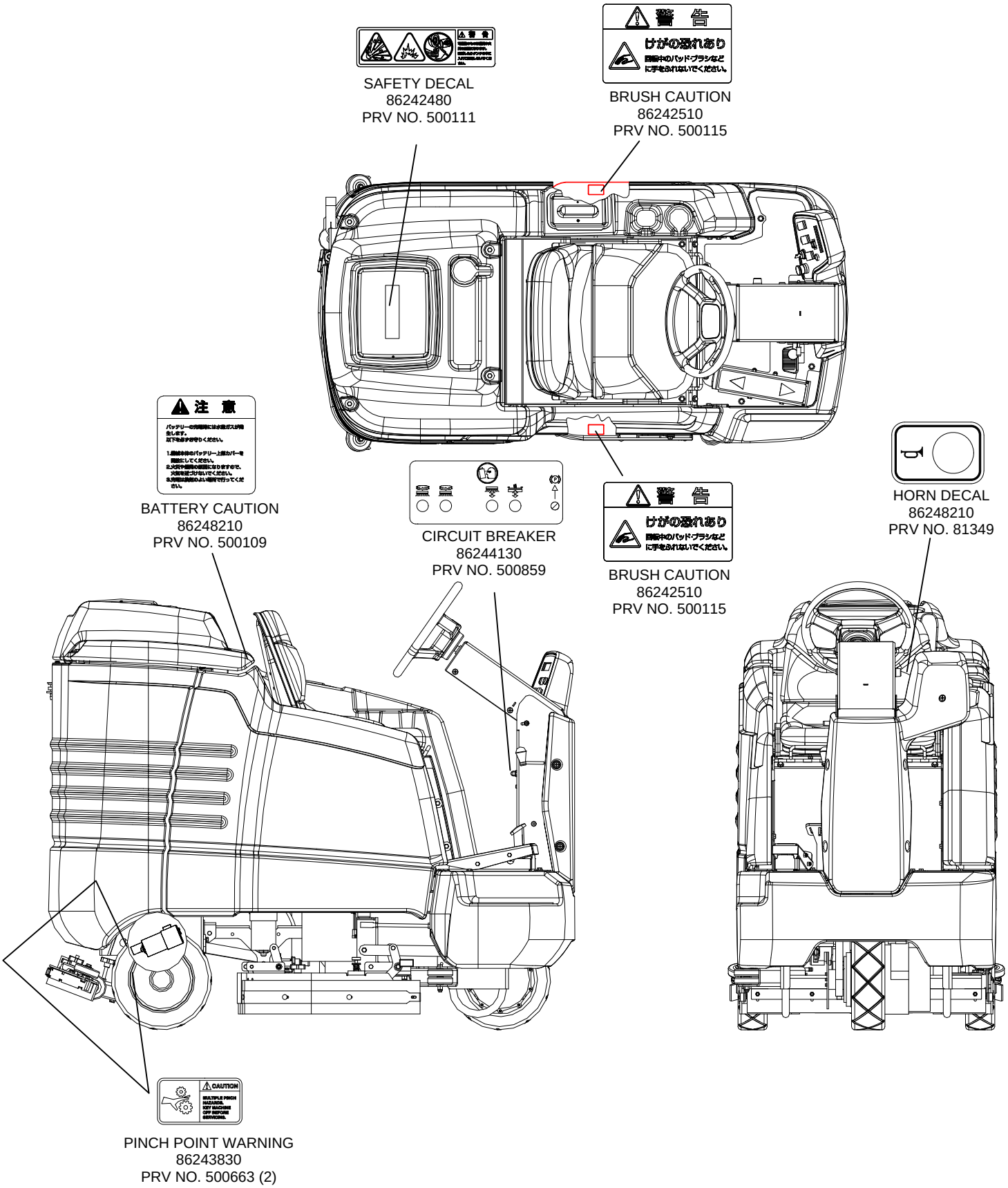
⚠ WARNING

Disconnect batteries before working on machine. Only qualified personnel should work inside machine. Always wear eye protection and protective clothing when working on or near batteries. Avoid skin contact with the acid contained in the batteries.

⚠ WARNING

Never allow metal to lie across battery tops.

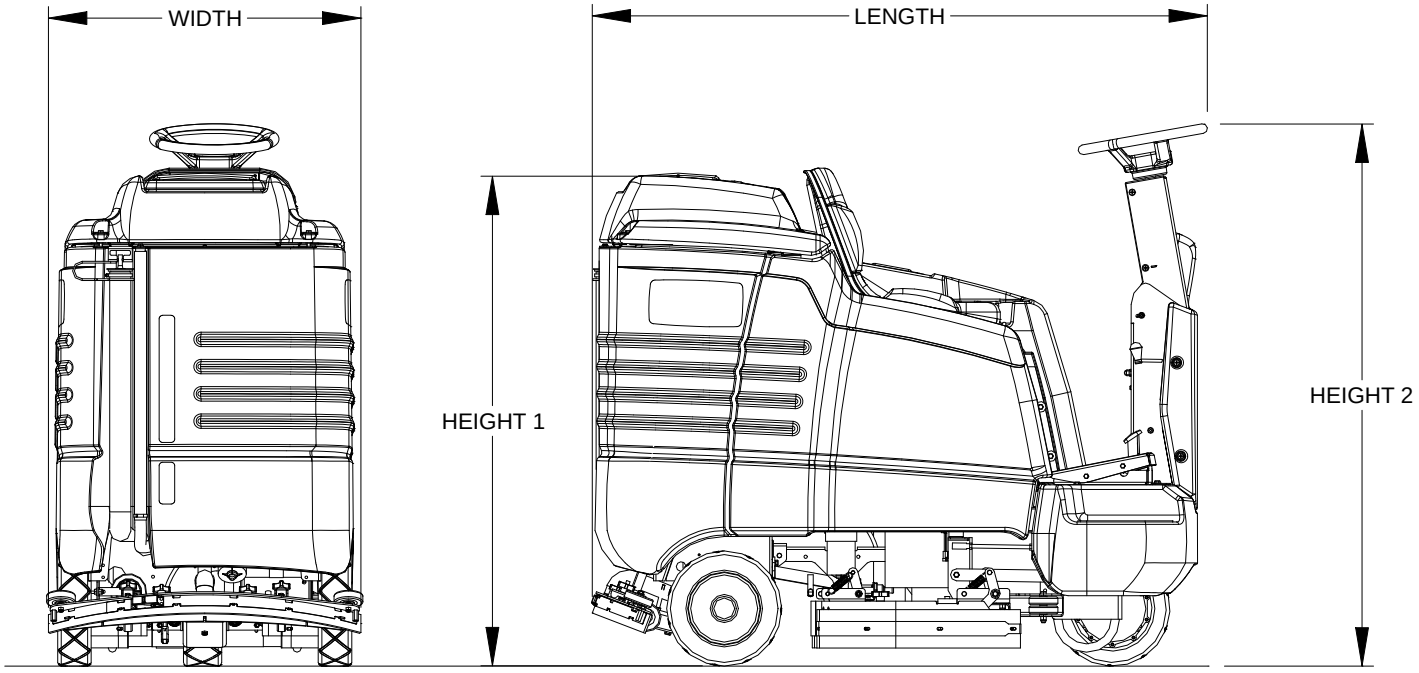
NOTE: These drawings indicate the location of safety labels on the machine. If at any time the labels become illegible, promptly replace them.



TECHNICAL SPECIFICATIONS

ITEM	DIMENSION/CAPACITY
Nominal power	2.9 kW
Rated Voltage	36 Volts DC
Rated Amperage	80 amps
Batteries	6 x 6 Volt 250-335 AH @20 hr. rate
Scrub Brush Motors	2 x 1.0 HP (746 W)
Vacuum Motor(s)	1 x .75 HP (560 W) Standard, second motor optional
Propelling Motor	1.3 HP (932 W)
Mass (GVW)	1810 lbs (820 kg)
Weight empty without batteries	790 lbs (360 kg)
Solution Control	Gravity feed, fully variable with automatic shut off in neutral
Solution tank capacity	30 gal (115 L)
Recovery tank capacity	30 gal (115 L)
Scrub brush diameter for 32 in. (81 cm) disk scrub head	16 inch (40.6 cm)
Scrub brush pressure	0-225 lbs (0-1000N)
Scrub brush speed	300 rpm
Tires	12 in. (30.5 cm) Solid Scrubber Compound
Foundation Pressure	108 lbs./in^2 (745 kPa)
Maximum Speed	4.1 miles/hour (6.5 Km/hour)
Frame Construction	Powder coated steel
Brakes	Self centering mechanical 7 in. (17.7 cm) disc with hand lock parking brake
Minimum aisle u-turn width 32 in. (81 cm) disk scrub head	66 inches (168 cm)
Maximum rated climb and descent angle	7.5 degrees

ITEM	MEASURE
Height 1	51 inches (130 cm)
Height 2	56.6 inches (144 cm)
Length	63.5 inches (161 cm)
Width without squeegee and scrub head	31 inches (79 cm)
Width of squeegee	33 inches (84 cm)
Width of scrub path for 32 in. (81 cm)	32 inches (81 cm)



SPECIAL NOTES:

The sound pressure level at the operator's ear was measured to be 72.3 dBA. This was a nearfield, broad-band measurement taken in a typical industrial environment on a tile floor. This appliance contains no possible source of impact noise. The instantaneous sound pressure level is below 63 Pa.

The weighted root mean square acceleration at the operator's arms was measured to be below 2.5m/s^2. This was a tri-axial, third-octave-band measurement made during normal operation on a composite tile floor. The measurement and related calculations were made in accordance with ANSI S3.34-1986.

HOW THE MACHINE WORKS

The Saber Glide is a battery powered, self-propelled, hard floor scrubber intended for commercial use. The appliance applies a cleaning solution onto a hard floor, scrubs the floor with brushes, and then vacuums the soiled water back into the recovery tank.

The machine's primary systems are the solution system, scrub system, recovery system, and operator control system.

The function of the solution system is to store cleaning solution and deliver it to the scrub system. The solution system consists of the solution tank, strainer, valve and controls. The solution tank stores cleaning solution (water and detergent) until it is delivered to the scrub system. The strainer protects the valve from debris. The valve is a solenoid type valve, which controls the delivery of cleaning solution to the scrub system. The valve automatically prevents solution flow unless the scrub brushes are turned on and the machine is being propelled. The solution control switch controls the amount of cleaning solution delivered to the scrub system by controlling the amount of time the valve is open.

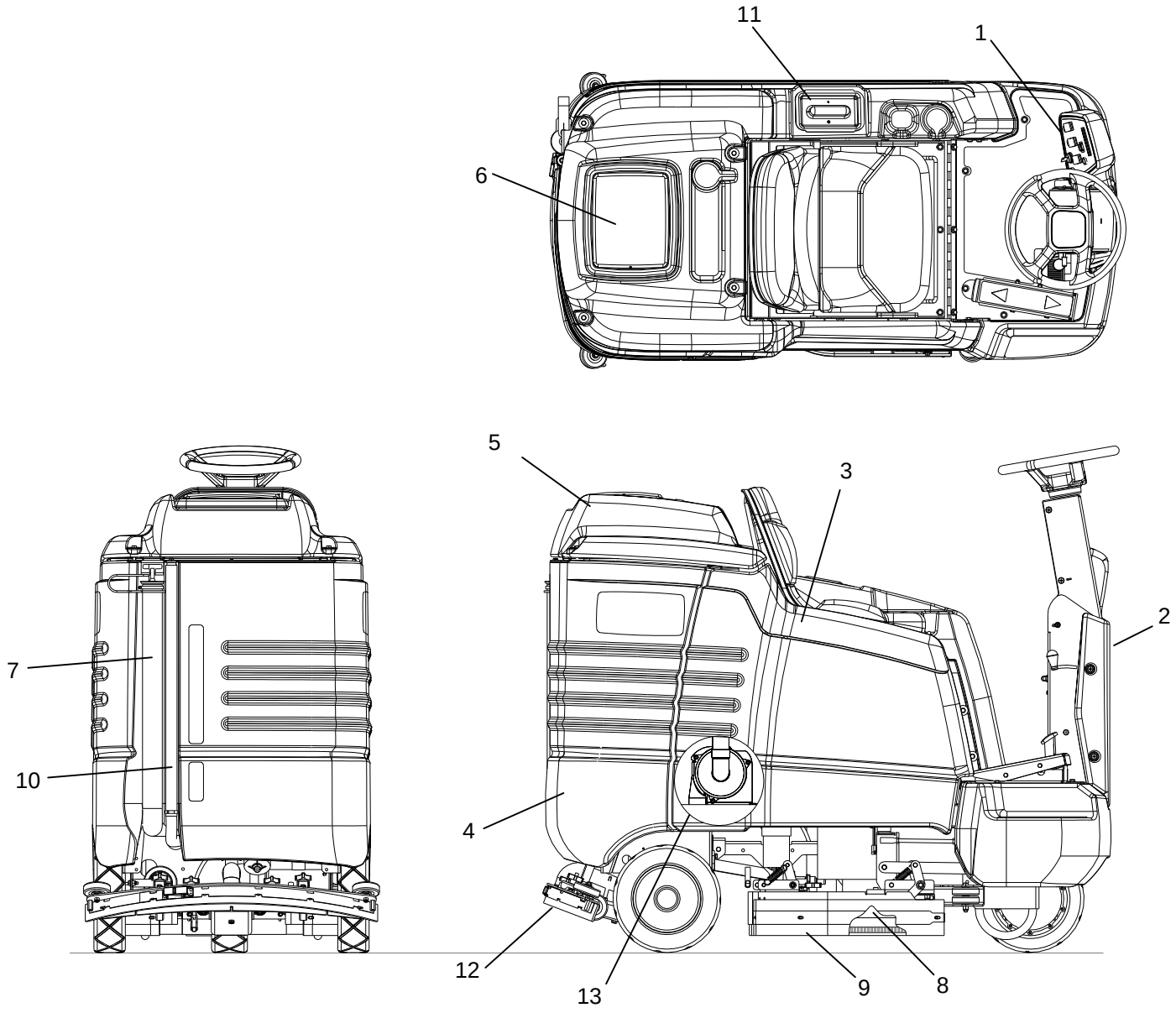
The function of the scrub system is to scrub the floor.

The disk scrub systems consists of two rotary type disk scrub brushes, motors, scrub deck skirt, lift actuator and controls. The brushes scrub the floor as the motors drive the brushes. The brush drive hubs allow the scrub brushes to follow irregularities and changes in the floor without loosing contact with the floor. The scrub deck skirts and side squeegees control the cleaning solution on the floor so that the squeegee can pick it up. The one touch switch controls the motors and lift actuator to turn the motors on and lower the deck, or turn the motors off and raise the deck. The brush pressure switch controls the down pressure on the scrub deck.

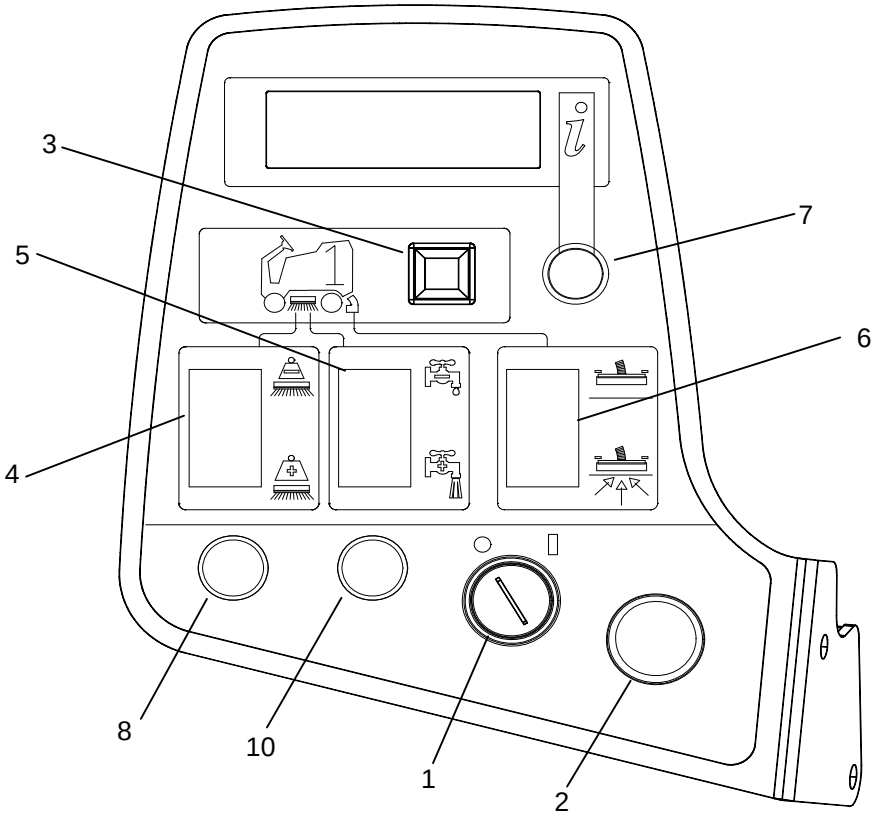
The function of the recovery system is to vacuum the soiled water back into the recovery tank. The recovery system consists of the squeegee, vacuum motor, filter, recovery tank and controls. The squeegee wipes the dirty solution off the floor as the machine moves forward. The vacuum motor provides suction to draw the dirty solution off the floor and into the recovery tank. The filter protects the vacuum fan from debris and foam. The recovery tank stores the dirty solution.

The float switch in the tank activates the recovery tank full indicator, shuts off the scrub motors and solution flow, raises the scrub deck then squeegee, and shuts off vacuum motor.

The function of the operator control system is to control the direction and speed of the machine. The directional control system consists of the direction/speed control pedal, steering wheel, brake pedal, propel controller, and drive wheel. The direction/speed pedal signals forward or reverse direction and speed. The controller interprets signals from the direction/speed pedal to command the drive wheel to propel or slow the machine. The steering wheel points the drive wheel in the direction desired by the operator. The brake can be used to hold the machine on slopes.



1. Control panel
2. Front cover
3. Side cover
4. Tank
5. Recovery tank cover
6. Recovery tank dome
7. Recovery tank drain hose
8. Scrub head
9. Scrub head side squeegee
10. Solution tank drain hose
11. Solution tank cover
12. Squeegee
13. Vacuum motor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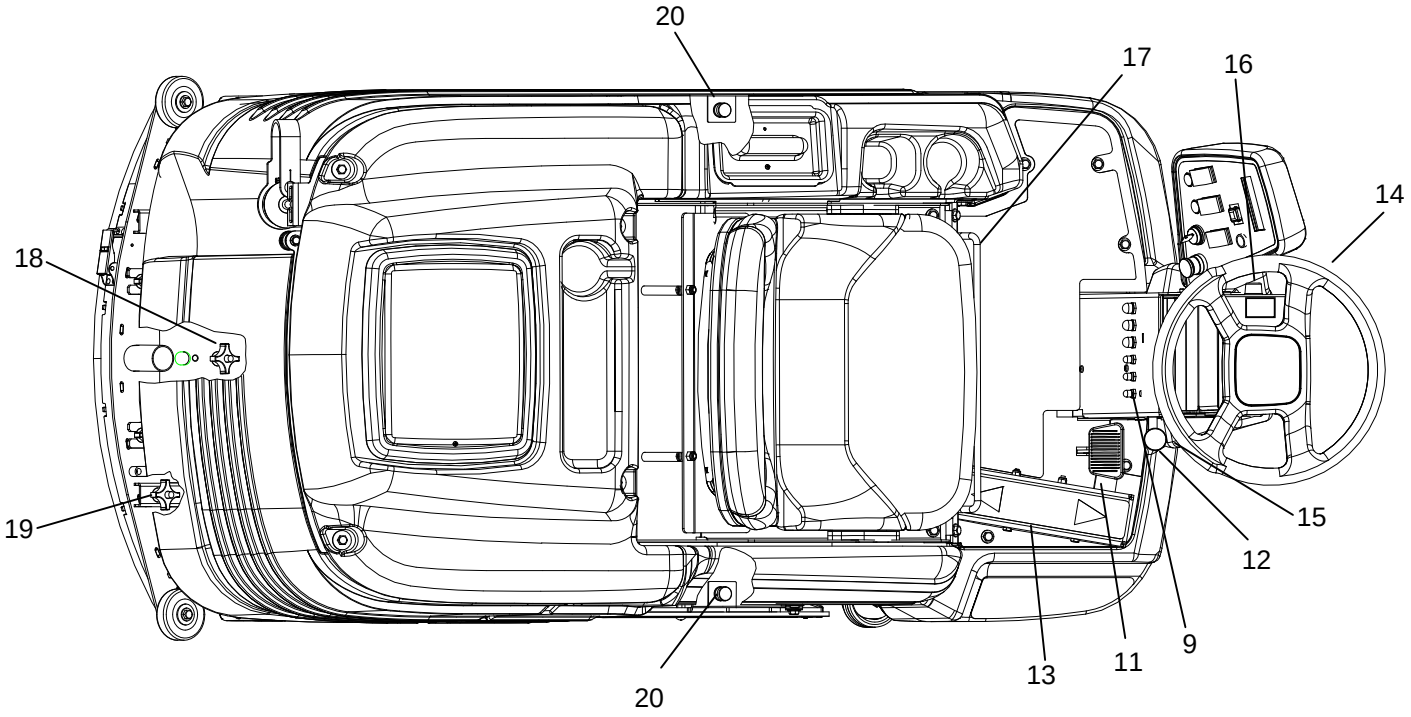
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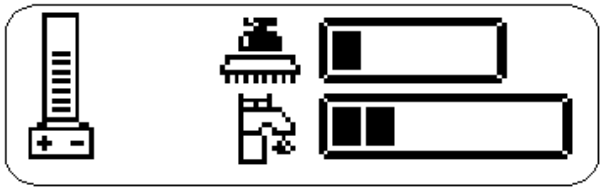
1. Key switch
2. Emergency stop button
3. One touch switch
4. Brush pressure switch
5. Solution control switch
6. Vacuum/squeegee switch
7. Display toggle switch
   - Information Screen 1
   - Information Screen 2
   - Hour meter
   - Fault codes and special icons
   - Battery meter
8. Recycle switch (optional)
9. Recycle indicator light (optional)
10. Headlight switch (optional)
11. Brake pedal
12. Parking brake lever
13. Directional control pedal and speed reduction feature.
14. Steering wheel
15. Steering tilt lever
16. Horn button
17. Seat adjustment grab bar
18. Squeegee camber adjustment knob
19. Squeegee deflection adjustment knob
20. Side squeegee deflection adjustment knob

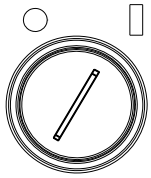
---

1. KEY SWITCH

Controls the power for the machine functions. To turn the machine power on, rotate key clockwise. When the key is turned on the battery symbol will flash for 12 seconds while the system runs self-diagnostics and returns scrub deck and squeegee to raised position, if necessary. The controller will not respond to other commands until this routine is complete. To turn the machine power off, rotate key counterclockwise.

INFORMATION DISPLAY

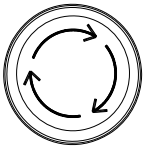




2. EMERGENCY STOP BUTTON

This safety feature is designed to cut all power to the machine at any time. To shut the machine power off, push the Emergency Stop switch. To reset the machine, rotate the switch clockwise.

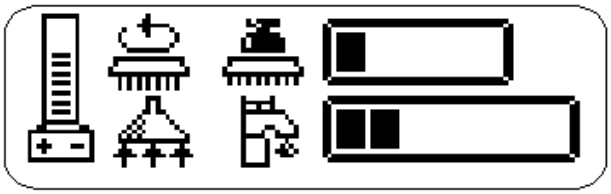
INFORMATION DISPLAY

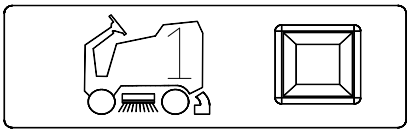


3. ONE TOUCH SWITCH

This switch controls the scrub brushes and vacuum all in one touch.
To start scrubbing, press the one touch switch. The brush drive motors will turn on, the scrub deck will lower to the "light scrub" position, the solution will flow at “two bars” rate, the squeegee will lower and the vacuum will turn on. The information display window will show which functions are operating. If the direction control pedal is in the neutral position for more than two seconds the brushes and solution flow will stop. If the one touch switch is activated without brushes installed, the brush motors will stop, the scrub deck will rise, and the brush pressure indicator will display error code 9000. To stop scrubbing, press the one touch switch. The brush drive motors will turn off, the scrub deck will raise the solution flow will stop, the squeegee will raise after a 15 second delay, and the vacuum motor will turn off. This delay is to clear the vacuum hose of recovered solution.

INFORMATION DISPLAY

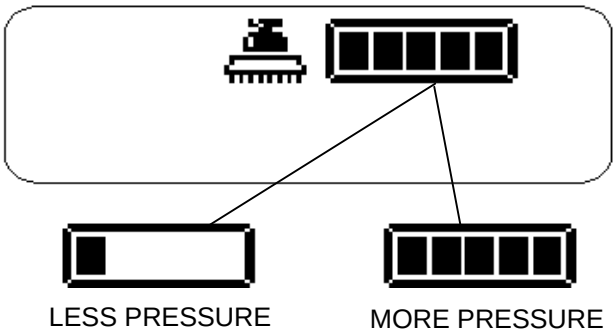


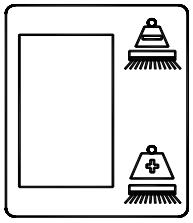


4. BRUSH PRESSURE SWITCH

This switch controls the amount of brush pressure to the floor. There are 5 different pressure settings. To decrease the amount of down pressure, press the top of the brush pressure switch (-). To increase the amount of down pressure, press the bottom of the brush pressure switch (+). The information display screen will show the amount of pressure.
NOTE: Press switch and hold momentarily each time to change brush pressure.

INFORMATION DISPLAY

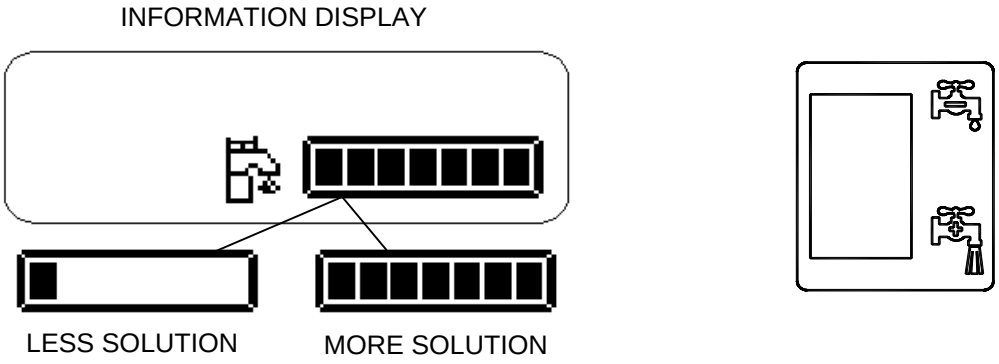




5. SOLUTION CONTROL SWITCH

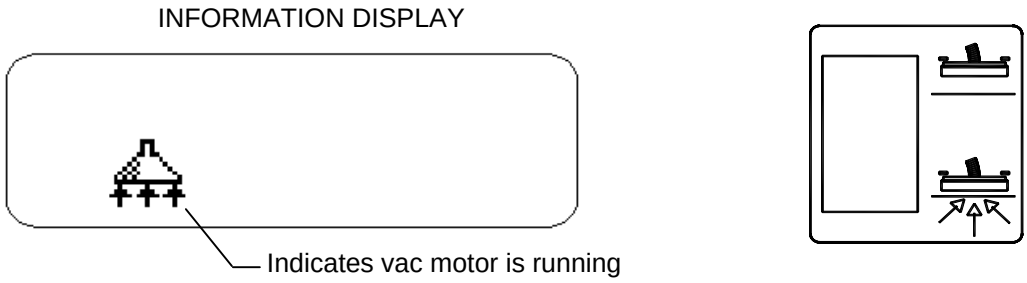
This switch controls the amount of solution flow to the scrub deck. There are 7 different flow settings. To increase the solution flow, press the solution control switch (+). To decrease solution flow, press the top of the switch (-). If the brush motors are turned off or the direction control pedal is in neutral, the flow is automatically interrupted until the motors are turned on again, or the drive pedal is moved forward or reverse. This feature prevents unintentional draining of the solution tank and allows the operator to adjust the solution flow to the scrub deck without resetting each time the scrubbing operation is interrupted. If recycling option is installed, this switch controls the amount of solution flow to the scrub deck by controlling the speed of the pump.

***NOTE**:* Press switch and hold momentarily each time to change solution flow.



6. VACUUM/SQUEEGEE SWITCH

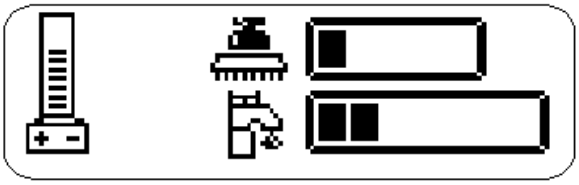
This switch independently controls the vacuum motor and squeegee position. To start the vacuum motor and lower the squeegee to the floor, press the bottom of the switch. To raise the squeegee and turn off the vacuum motor, press the top of the switch. The squeegee will raise after a 15 second delay, and the vacuum motor will turn off 15 seconds later, in order to clear vacuum hose of recovered solution.

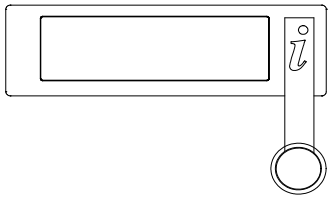


7. DISPLAY TOGGLE SWITCH

The display toggle switch allows you to change the information display screen. Two screens are available.

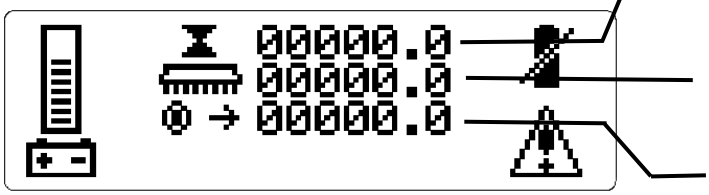
- INFORMATION DISPLAY –SCREEN 1





- INFORMATION DISPLAY –SCREEN 2

- The hour meter is viewed on screen 2 of the information display. Hours are displayed for key ON time, brush run time, and traction motor time.

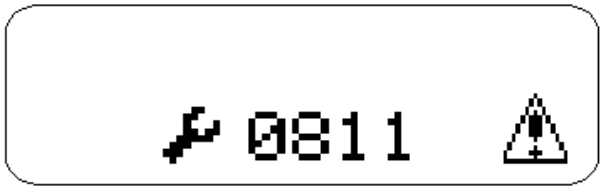


Key ON Hours:
Records the entire time that the key is on.

Brush Run Time:
Records the time spent with the brushes running and gives true brush motor time.

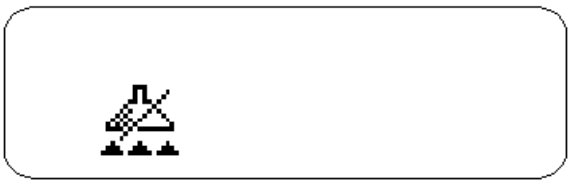
Traction Motor Time:
Records the time spent propelling the machine and gives true traction motor time.

- Fault codes/icon will appear on either display screen when the controller detects a problem within the electrical system. The codes/icons are used to assist users as well as service technicians in identifying and correcting problems. See troubleshooting section for more information on fault codes.



- Icon appears if throttle is depressed when the key is turned on. To correct, lift foot off of throttle. If this does not clear the icon, the throttle may be damaged and should be checked by a qualified service technician.

- The float switch is located inside the recovery tank. The purpose of the float switch is to notify the user that the recovery tank is full. When the float switch is activated, the scrub brush motors and solution flow will stop, the scrub deck will raise, the squeegee will rise after 60 seconds, and the vacuum motor will turn off 10 seconds later.



- The battery meter can be viewed at the left side of either information screen 1 or information screen 2. The level of battery charge is indicated by the horizontal bars in the battery meter box. When the batteries require charging, the icon will flash and a battery inhibit icon will appear on the right side of either information screen. Scrub and solution functions that are running when the battery inhibit icon appears will be automatically shut off. It is not possible to restart scrub functions while the battery inhibit is displayed. The controller reserves enough battery charge to allow pick-up of residual water and transport back to a charging station.

8. RECYCLE SWITCH (OPTIONAL)

This switch controls the solution recycle pump. To start recycle pump, press the switch. A green light above the circuit breakers will indicate that pump is on. The solution control switch will control the speed of the pump and therefore the amount of solution flow to the scrub deck. Make sure there is an adequate amount of water in recovery tank before starting recycle pump, and turn off recycle pump when water level reaches filter. To stop the solution recycle pump, press the switch. The pump will stop and the green indicator light will turn off, and the solenoid valve will resume control of solution flow to the scrub deck.

9. RECYCLE INDICATOR LIGHT (OPTIONAL)

This light will turn on when the recycle pump is on, and turn off when the recycle pump is off.

10. HEADLIGHT SWITCH (OPTIONAL)

Turns on optional headlight for improved visibility in low light areas.

11. BRAKE PEDAL

The brake pedal is located on the floor to the right side of the steering column pedestal. The pedal operates the disc brake on the drive wheel. To slow or stop the vehicle, apply pressure to the brake pedal.

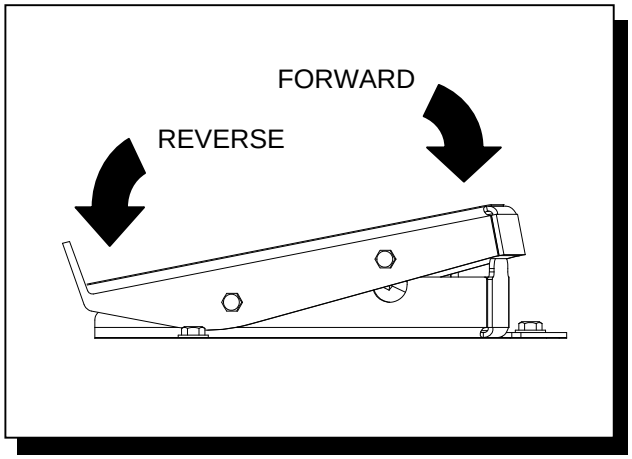
12. PARKING BRAKE LEVER

The black knob located on the right side of the steering column pedestal is used to set the parking brake. To set the parking brake, fully depress the brake pedal and push the parking brake knob. To release the parking brake, fully depress the brake pedal. Then release pressure on the brake pedal. The parking brake knob will return it to its' released position.
FOR SAFETY: Before leaving or servicing machine; stop on level surface, set parking brake, turn off machine and remove key.

13. DIRECTIONAL CONTROL PEDAL AND SPEED REDUCTION FEATURE

This pedal controls the direction of travel and the speed of the vehicle. Slowly pressing the front of the pedal causes the machine to travel forward. Pressing the rear of the pedal causes the vehicle to travel in reverse. The vehicle speed can be controlled by varying the pressure on the front or rear of the pedal.

FOR SAFETY: The vehicle can coast for a short distance after releasing the directional pedal. Remove the foot from pedal and use brakes to slow or stop the machine.



SPEED REDUCTION FEATURE

Maximum speed of machine can be decreased to 80% of maximum by disconnecting wire 3 white from wire 16 white, located between controller and LCD display. Machine is set at 100% speed setting at factory.

14. STEERING WHEEL

The steering wheel turns the front wheel causing the machine to change direction.

15. STEERING TILT LEVER

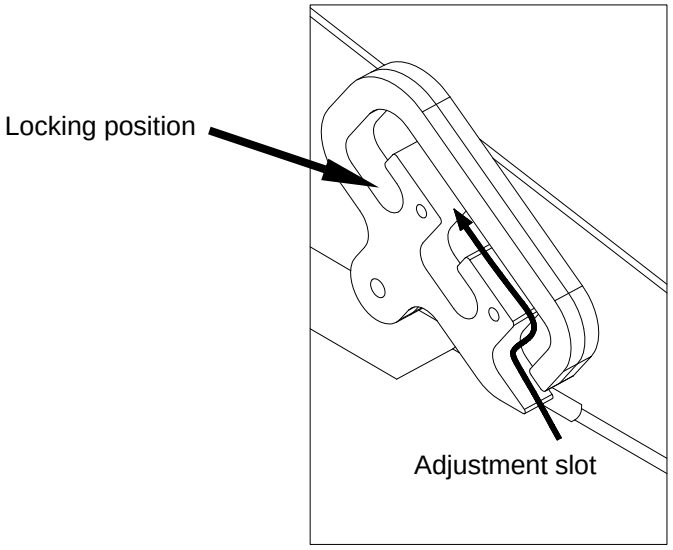
The steering tilt lever is located on the right side of the steering wheel. To engage the tilt adjustment, pull on the lever and adjust the steering column to desired position. Release lever and allow it to lock into desired position.

16. HORN BUTTON

The horn button is located on left side of the steering column. The horn is activated by pressing the horn button.

17. SEAT ADJUSTMENT GRAB BAR

The seat adjustment grab bar is located in front of seat at the bottom. While in a standing position, grasp the back of the seat and the seat adjustment grab bar and lift seat into the adjustment slot and lower into one of the locking positions. Adjust the seat to the desired position.



18. SQUEEGEE CAMBER ADJUSTMENT KNOB

The squeegee camber adjustment knob is located at the center of the squeegee at the rear of the machine. (See maintenance section for adjustment).

19. SQUEEGEE DEFECTION ADJUSTMENT KNOB

The squeegee deflection knob is located at the rear of the machine, on the right side of the squeegee assembly. (See maintenance section for adjustment).

20. SIDE SQUEEGEE DEFECTION ADJUSTMENT KNOB

Side squeegee adjustment knobs are located above the scrub deck. (See maintenance section for adjustment).

PRE-RUN MACHINE INSPECTION

1. Do a pre-run inspection to find possible problems that could cause poor performance or lost time from breakdown. Follow the same procedure each time to avoid missing steps. Visually check for exterior damage, leaks, damaged or worn tires.
2. Check brushes or pads and drivers for proper installation and wear. Weekly check scrub deck skirts for proper contact with floor. See BRUSHES in MAINTENANCE SECTION.
3. Check squeegee for wear and proper adjustment. See SQUEEGEE ADJUSTMENT in MAINTENANCE SECTION.
4. Check for securely attached drain hose, plug, and caps.
5. Check battery condition, recharge if necessary. See BATTERIES in maintenance section.
6. Check the brakes and steering for proper operation. See BRAKES and STEERING in MAINTENANCE SECTION.

STARTING MACHINE

NOTE: *Perform pre-run machine check before operating machine.*

FOR SAFETY: **Before starting machine, make sure that all safety devices are in place and operating properly.**

1. The operator should be in the seat with the right foot on the brake pedal or with the parking brake on. The directional pedal must be in the neutral position to avoid unintentional movement.

NOTE: *The Operator must be in position on the seat to activate machine in desired direction.*

2. Turn the key switch clockwise to the “ON” position.
3. Release the brake, then press lightly on the directional pedal in the desired direction and drive to the filling area.

FILLING THE MACHINE

FOR SAFETY: Before leaving or servicing machine; stop on level surface, set parking brake, turn off machine and remove key.

1. Set squeegee and scrub deck to up position, set parking brake, and turn off key switch.
2. Remove solution tank cover.

⚠ WARNING **Flammable materials can cause an explosion or fire. Do not use flammable materials in the tanks.**

3. The solution tank can be filled to the FULL marking of the fill inlet. Leave room for detergent. The solution tank capacity is 30 gallons (114 liters).
   The water must not be hotter than 140° (60°C) to prevent damage to the tank. Measure the required amount of chemical into the solution tank after filling with water. Dry chemicals should be thoroughly mixed before being added into solution tank. Commercially available, high alkaline floor cleaners are suitable for use in the solution system.
4. Inspect solution tank cover vent for obstructions. Replace solution tank cover.

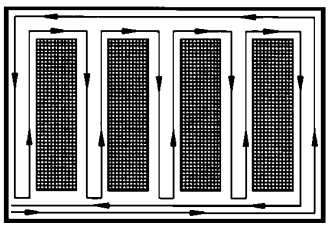
SCRUBBING

Plan the scrubbing pattern in advance. The longest track is around the perimeter of the area to be cleaned. For efficient operation, the runs should be the longest possible without turning, stopping, or raising or lowering scrub deck/squeegee.

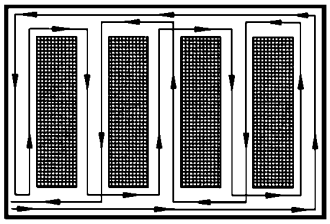
In order to achieve the best possible results, the area which is to be cleaned should be swept before scrubbing. Large debris, strings and wire must be removed to prevent being caught in brushes or squeegee.

The machine will automatically raise the squeegee slightly when reverse travel is selected. If the machine is allowed to stand in neutral with the scrub deck down for more than 2 seconds, the solutions flow stops and brush motors stop. If either forward or reverse travel is selected, the solution flow will continue in the same setting and the scrub brush motors will continue in their same setting once movement of machine begins. Overlap the brush path and avoid transporting over previously cleaned areas.

INEFFICIENT SCRUBBING PATH



RECOMMENDED SCRUBBING PATH



TO BEGIN SCRUBBING

⚠ CAUTION **When operating the machine around people, pay close attention for unexpected movement. Use extra caution around children.**

1. Place right foot on brake pedal or check to make sure parking brake has been set.
2. With directional pedal in neutral turn key switch to “ON”.
3. Release brake.
4. Press the directional pedal to travel in the desired direction and steer to the start of the scrub pattern.
5. Press the one-touch switch (#1) on the control panel. The brush motors will start, the scrub deck will lower to the light scrub position, the solution will begin to flow, the squeegee will lower to the floor and the vacuum motors will start.
6. Adjust the speed of the machine, solution flow and scrub brush pressure as necessary.
   NOTE: *Once solution flow rate is set it is not necessary to shut off solution when stopping scrubbing. Solution flow is automatically shut off when brush motors stop. When brush motors are activated, flow automatically resumes.*

⚠ WARNING **Flammable liquids and/or reactive metals can cause explosions or fire! Do not pick up.**

TO STOP SCRUBBING

1. Press the one-touch switch (#1) on the control panel. The brush motors will stop and the scrub deck will raise to the park position. After 15 seconds, the squeegee will raise, and 15 seconds later the vacuum motor will turn off. This delay is to clear the vacuum hose of recovered solution.
2. Allow directional pedal to return to neutral.
3. Apply brake to stop machine.
4. Turn key switch off.
5. Set parking brake.

FOR SAFETY: Before leaving or servicing machine; stop on level surface, set parking brake, turn off machine and remove key.

EMERGENCY STOP PROCEDURE

1. Turn key switch to off position. If an electrical problem is suspected push in emergency stop button.
2. Release pressure on directional pedal.
3. Apply brakes.

NOTE: *Turning the key switch off during normal running operation will stop all motors and actuators. When the key is turned back on the system will automatically return scrub deck and squeegee to raised position.*

DOUBLE SCRUB

Floors which are heavily soiled or have thick accumulation of floor finish may not clean sufficiently with one pass. In these cases it will be necessary to double scrub.

To double scrub, make the first pass over the surface being cleaned with the squeegee up, the solution on, and brushes down. This allows the solution to stay in contract with the soil while loosening the surface accumulation with the brushes. Allow time for the first application to stay in contact with floor. Length of time between the first and second pass depends on amount of accumulation and the type of chemical being used. A second scrubbing with the squeegee down and again the solution and brushes on will further loosen soil. The additional application of solution will further assist the difficult cleaning job. Caution should be used when double scrubbing, maintain safe driving speed on wet floors.

EMPTYING AND CLEANING TANKS

RECOVERY TANK

1. Touch the one-touch switch (#1) on the control panel to raise the scrub deck, stop the motors, and solution flow, raise the squeegee and turn off vacuum motors.
2. Park the machine next to a floor drain. Drain hose is on left rear corner of machine.
3. Turn off the key switch and set the machine's parking brake.
4. Unhook the drain hose from retainer. Unscrew T-handle on plug enough to loosen plug and lower hose in direction of drain. Stand behind end of hose. Recovered solution will come out with force. Slowly remove plug from drain hose.
5. Remove recovery tank dome.
6. Flush the recovery tank out with clean water. Repeat until clean water comes out of drain hose. Do not use water hotter than 140° (60°C) to clean the tank. Damage to tank may occur.
7. Replace plug and secure drain hose in bracket.
8. If machine is to be stored, leave recovery tank dome open and drain hose plug off.

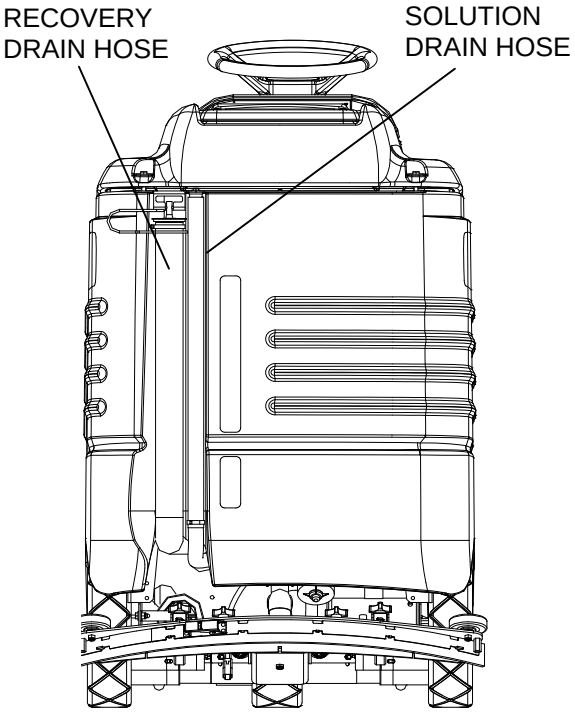
SOLUTION TANK

1. Park the machine next to a floor drain. Drain hose is on left rear adjacent to recovery tank drain hose.
2. Turn off the key switch and set the machine's parking brake.
3. Unhook the small drain hose from the retainer. Lower hose in direction of the drain.
4. Remove the solution tank cover.
5. Flush the solution tank out with clean water and run several gallons of clean water through systems. Do not use water hotter than 140º F (60º C) to clean tank. Damage may occur.

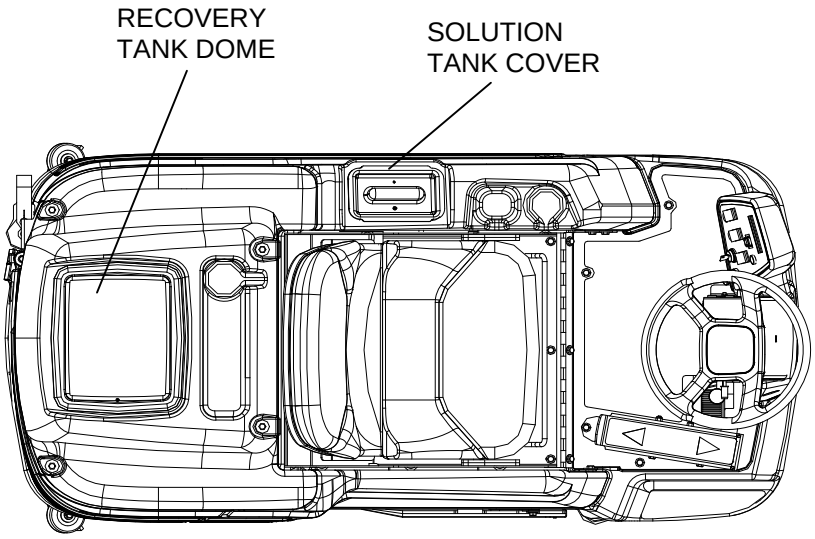
NOTE: *Never allow solution to remain in tank. Damage to tank, seals and valves could occur.*

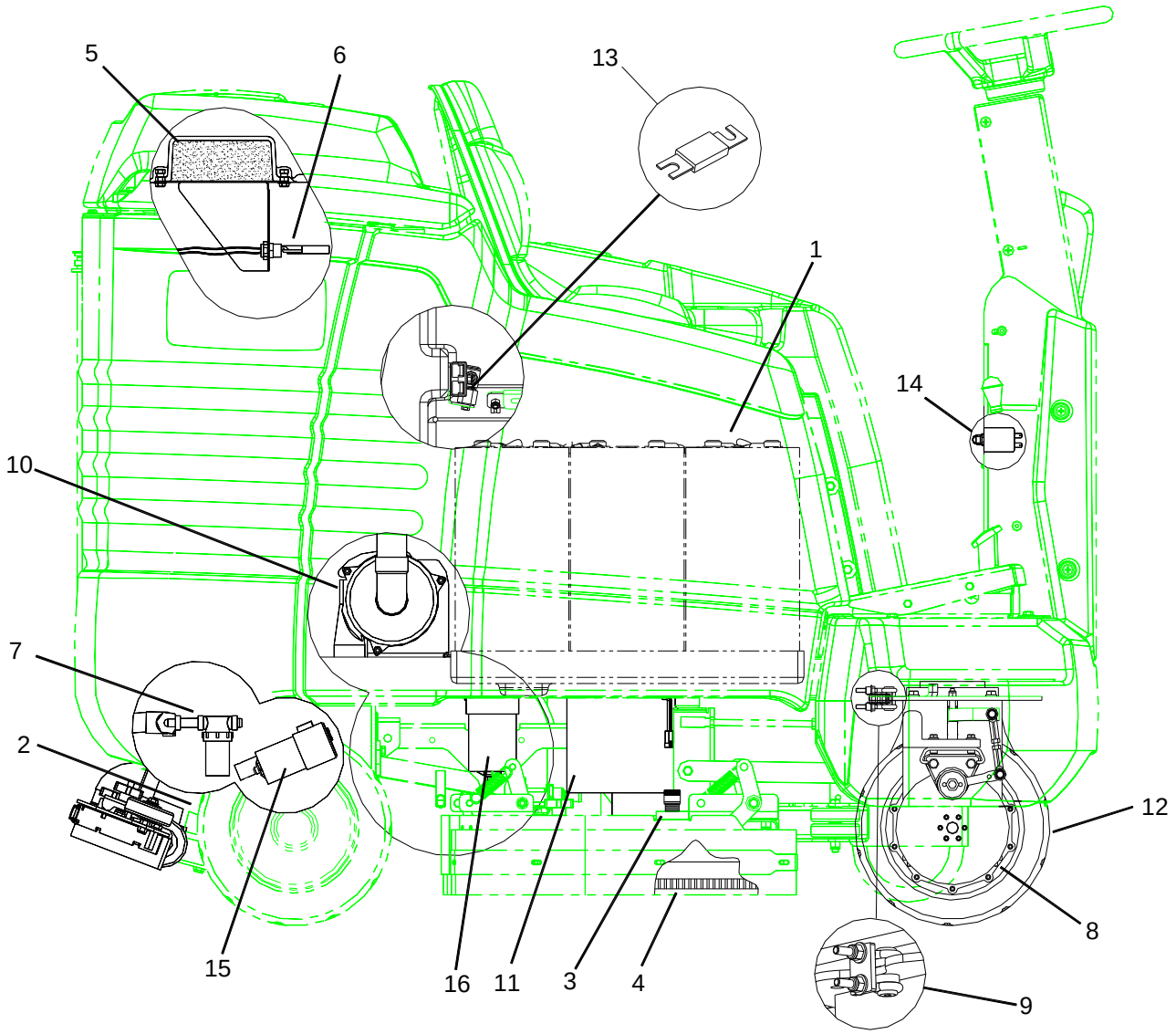
6. Secure drain hose in bracket.

REAR VIEW



TOP VIEW





1. Batteries
2. Squeegee Adjustment
3. Side Squeegee Adjustment
4. Scrub Brushes
5. Vacuum Filter
6. Float Switch
7. Solution Strainer
8. Brake
9. Steering Chain Tensioner
10. Vacuum Motor
11. Brush Motor
12. Traction Motor
13. Fuse
14. Circuit Breaker
15. Squeegee Lift Actuator
16. Scrub Lift Actuator

1. BATTERIES

The batteries provide the power to operate the machine. The batteries require regular maintenance to keep them operating at peak efficiency.

To get the greatest life from the batteries charge them when their charge level reaches 25%of a full charge. Use a hydrometer to check the charge level.

Do not allow the batteries to remain in a discharged condition for any length of time. Never expose a discharged battery to temperatures below freezing. Discharged batteries will freeze causing cracked case. Do not operate the machine if the batteries are in poor condition or if they have a charge level below 25%, specific gravity below 1.177.

Keep all metallic objects off the top of the batteries, as they may cause a short circuit. Replace worn or damaged cables and terminals.

Check the electrolyte level in each battery cell before and after charging the batteries. Never add acid to the batteries, use water. Do not allow water level to fall below the battery plates. Portions of plates exposed to air will be destroyed. Do not overfill. Keep plugs firmly in place at all times.

⚠ WARNING When servicing machine, avoid contact with acid.

⚠ WARNING Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away. Keep covers open when charging.

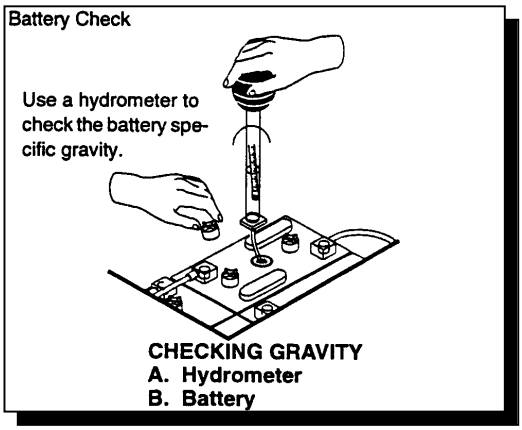
⚠ WARNING Wear eye protection and protective clothing when working with batteries.

⚠ WARNING Charge batteries in a well ventilated area.

BATTERY MAINTENANCE

1. When cleaning the batteries, use a solution of baking soda and water. Do not allow the cleaning fluid to enter the battery cells. Electrolyte will be neutralized.
2. Maintain the proper electrolyte level in each battery cell. If a cell should accidentally overflow, clean immediately.
3. Do not add water until the battery is fully charged.
4. Wipe off the top of the batteries at least once a week.
5. Test battery condition with a hydrometer at least once a week.
6. Ensure that all connections are tight and all corrosion removed.
7. Every 4 to 6 months, remove the batteries from the machine and clean the battery cases and battery compartment.

NOTE: *Do not take readings immediately after adding water. If the water and acid are not thoroughly mixed, the reading may not be accurate.*



To find the correct specific gravity reading when the temperature of the battery electrolyte is other then 80° F (27° C).

SPECIFIC GRAVITY	BATTERY CONDITION
1.265	100% CHARGED
1.225	75% CHARGED
1.190	50% CHARGED
1.155	25% CHARGED
1.120	DISCHARGED

Add (+) to the specific gravity reading 0.004 (4 points), for each 10° F (6° C) above 80° F (27° C) Subtract (-) from the specific gravity reading 0.004 (4 points), for each 10° F (6° C) below 80° F (27° C).

TO CHARGE BATTERIES

When servicing machine, avoid contact with acid.

⚠ WARNING

Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away. Keep covers open when charging.

⚠ WARNING

Wear eye protection and protective clothing when working with batteries.

⚠ WARNING

Charge batteries in a well ventilated area.

⚠ WARNING

1. Stop the machine in a clean, well ventilated area next to the charger.
2. Turn the machine off and set parking brake.

FOR SAFETY: **Before leaving or servicing machine, stop on level surface, apply parking brake, turn off machine and remove key.**

3. Raise the seat and raise the support arm to lock in place.

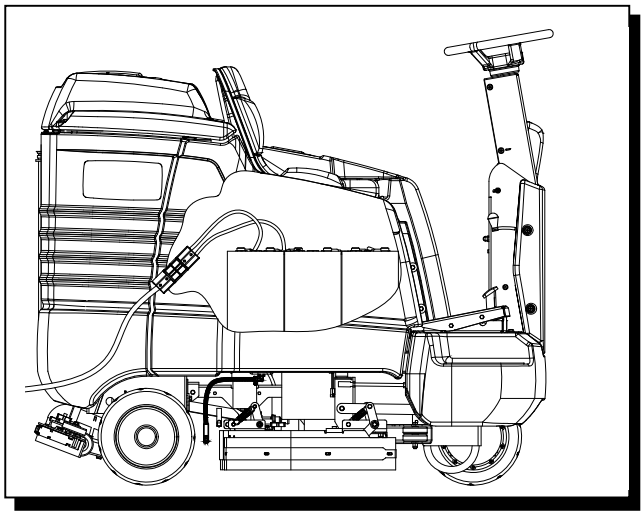
Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away. Keep covers open when charging.

⚠ WARNING

4. Check the electrolyte level in each battery cell. Before charging, add just enough water to cover up the plates. After recharging has completed, add just enough water to bring up the level to the indicator ring. If water level is to high before charging, normal expansion of the electrolytes may cause and overflow, resulting in loss of battery acid balance and damage to the machine.
5. Replace battery caps, and leave them in place while charging.
6. Unplug the battery connector from the machine. Unplug the battery charger from power outlet.

FOR SAFETY: **When charging, connect the charger to the batteries before connecting the charger to the AC wall outlet. Never connect the charger to the AC first. Hazardous sparks may result.**

7. Use a 36 volt DC charger which will automatically shut off when the batteries are fully charged to charge the six battery pack.
8. Plug the charger into the battery connector. Plug battery charger into power outlet. The charger gauge should indicate that the batteries are charging. If the charger does not automatically start up, verify that charger is plugged into batteries.
9. When the batteries are fully charged, disconnect the charger from the batteries.
10. Connect the batteries to the machine connector.
11. Check the electrolyte level. It should be up to the indicator ring. If necessary, add distilled water.
12. Lower the seat.



LOW BATTERY SHUT-DOWN

The electronic system is equipped with battery voltage sensors. When the batteries are exhausted to a preset level, the scrubbing system will shut down to protect the batteries from damage, and the battery lockout icon will appear on the display.

TO REMOVE BATTERIES

1. Stop the machine in a clean area next to the charger.
2. Turn off machine and set parking brake.

FOR SAFETY: **Before leaving or servicing machine, stop on level surface, apply parking brake, turn off machine and remove key.**

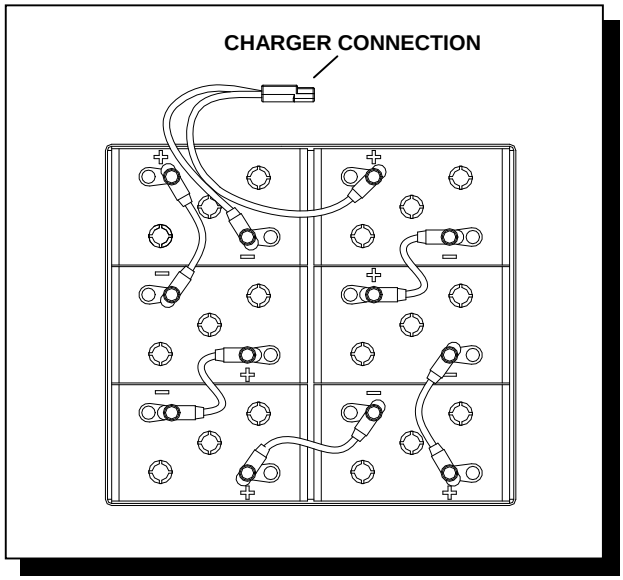
3. Raise the seat plate.
4. Remove side cover.
5. Disconnect battery pack from the machine.
6. Use the proper size open end wrench to disconnect main ground wire first and secure cable terminal away from batteries.
7. Disconnect main positive lead and secure cable terminal away from battery/batteries.
8. Loosen both terminals on each jumper cable and remove one at a time**.**
9. Prepare a suitable battery site to place batteries.
10. Attach suitable battery lifting device and lift batteries from the machine.

⚠ CAUTION

Batteries are a potential environmental hazard. Consult your battery supplier for safe disposal methods.

TO REPLACE BATTERIES

1. Refer to diagram. Place batteries in battery compartment.
2. Connect all jumper cables positive to negative to the six batteries.
3. Connect the positive cable to battery in the position shown.
4. Connect negative cable to battery in the position shown.



2. SQUEEGEE ADJUSTMENT

Adjusting the squeegee is a two-part process. First, the squeegee tool must have correct pitch in order for the squeegee blade to have the same deflection at each tip as well as the center. The pitch adjustment is facilitated by the use of a spirit level mounted on the squeegee tool. The second adjustment is the amount of deflection or down pressure on the squeegee.

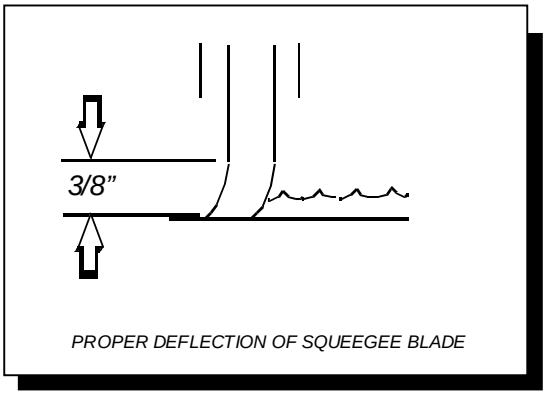
TO ADJUST SQUEEGEE PITCH

1. Choose a smooth, level surface. Turn on the key switch, release the machine parking brake, lower the squeegee and drive forward at least 2 feet (60 cm).
2. With the squeegee down, stop the machine and set the parking brake. Do not allow the machine to roll back.

FOR SAFETY: Before leaving or servicing machine; stop on level surface, turn off machine and remove key.

3. Determine the differences, if any, in deflection of the squeegee blade between each end and the middle. Proper adjustment is obtained when deflection is equal all the way across tool. This should correspond to the bubble being in the middle position of the spirit level.
4. To decrease the deflection of the squeegee blade at the ends, turn knob on squeegee trailing arm clockwise. To increase the deflection at the ends of the squeegee assembly, turn knob counter clockwise.
5. Again check the deflection of the squeegee blades. Repeat steps 1 through 4 until the deflection is equal across the entire rear squeegee blade.

TO ADJUST SQUEEGEE DEFLECTION



PROPER DEFLECTION OF SQUEEGEE BLADE

1. Choose a smooth, level surface. Lower the squeegee and drive forward at least 2 feet.
2. With the squeegee down, stop the machine and set the parking brake. Do not allow the machine to roll back.

FOR SAFETY: Before leaving or servicing machine; stop on level surface, turn off machine and remove key.

3. Observe the amount of squeegee deflection. It should deflect 3/8in (9.5 mm) across the entire width of the squeegee.
4. To adjust the squeegee deflection, loosen knob on the squeegee slide bar.
5. Sliding bar to left increases deflection. Sliding bar to right decreases deflection.
6. Tighten knob on squeegee slide bar.
7. Turn on the key switch, release the machine parking brake. Raise, then lower squeegee assembly by pressing the vacuum switch. Drive forward at least 2 feet.
8. Repeat steps 2 through 7 until defection of 3/8 in. (9.5 mm) is reached.

TO REPLACE OR ROTATE REAR SQUEEGEE BLADES

1. With the squeegee in the up position, turn off the key switch and set the parking brake.

FOR SAFETY: Before leaving or servicing machine; stop on level surface, turn off machine and remove key.

2. Unlock and pull open latch on rear of squeegee tool.
3. Remove blade retainer straps from squeegee tool.
4. Remove squeegee blade from locating pins on squeegee tool and rotate to new position or replace as required.
5. nstall blade on locating pins of squeegee tool.
6. Install squeegee retainer straps.
7. Fasten and lock latch. Latch is adjustable. Adjust latch only tight enough to take up slack in retaining strap.

NOTE: *Changing of squeegee blades does not always necessitate a readjustment. Refer to section on adjusting squeegee.*

TO REMOVE SQUEEGEE ASSEMBLY

1. With the squeegee in the up position, turn off the key switch and set the parking brake.

FOR SAFETY: Before leaving or servicing machine; stop on level surface, turn off machine and remove key.

2. Disconnect vacuum hose and loosen the two squeegee retaining knobs.
3. Pull squeegee assembly rearward from the lifting carrier.
4. With squeegee assembly on bench inspect or repair as necessary.
5. To reinstall, align squeegee assembly to lift carrier. Push forward until squeegee is fully engaged.
6. Tighten knobs.
7. Attach vacuum hose.

TO REPLACE OR ROTATE FRONT SQUEEGEE BLADES

1. With squeegee assembly on bench, loosen retaining bolt and locking nut on the left side of the retaining strap.
2. Remove front retainer strap.
3. Remove squeegee blade from locating pins on squeegee tool and rotate to new position or replace as required.
4. Install blade on locating pins of squeegee tool.
5. Replace front retainer strap.
6. Secure strap by tightening retaining bolt and locking nut on retainer strap.

NOTE: *Changing of squeegee blades does not always necessitate a readjustment. Refer to section on adjusting squeegee.*

3. SIDE SQUEEGEE ADJUSTMENT

TO REPLACE OR ROTATE SIDE SQUEEGEE BLADES

1. Loosen the locking knob and pivot the side squeegee out as if to expose the brush.
2. Loosen and remove the three nuts and bolts securing squeegee blades.
3. Remove the retaining strap and squeegee blade and rotate or replace squeegee blade.
4. Install blade and retaining strap on locating pin and reinstall three bolts and nuts.
5. Tighten nuts. Do not over tighten nuts as this will damage the retaining strap and deform the squeegee blade.
6. Pivot the side squeegee back into place and tighten the locking knob.

ADJUSTING THE SIDE SQUEEGEE DEFLECTION

Side squeegee should deflect approximately 3/8 in. when in use. If the blade is under curled it will skip low spots and leave puddles. It the blade is over curled or worn it will smear water and leave stripes and streaks.

1. Choose a smooth level surface. Lower the scrub deck to the floor and drive forward slowly while observing the curl and squeegee performance.
2. To increase the curl, turn the deflection adjustment knob counter clockwise.
3. To decrease the curl, turn the deflection adjustment knob clockwise.

4. SCRUB BRUSHES

There are five different types of brushes available to cover applications from cleaning heavily soiled floors to polishing. A pad driver is also available to take advantage of the many cleaning pads on the market and further add to the flexibility of the machine. Please refer to the following to assist in selecting the proper brush or pad for the work at hand.

UNCOATED FLOORS

Aggressive Grit is a nylon fiber impregnated with silicone carbide grit. It grinds away stain, soil, and removes surface material.

Mild Grit is a less aggressive silicone carbide grit suitable for cleaning medium soil conditions. Advantages are faster ground speed than nylon bristles on light solid applications.

Nylon is a general-purpose scrub brush with stiff bristles.

Polypropylene works well for maintaining concrete, wood and tile floors.

FINISHED FLOORS

Nylon bristles are used in a variety of applications on coated or uncoated surfaces.

Polypropylene bristles work on a variety of floor surfaces. Does not soften in water

White Pads (Polishing) are used for dry polishing to achieve a high-gloss appearance, or surface washing on highly polished or burnished floors.

Red Pads (Buffing) are used for light-duty scrubbing. When used with a mild detergent they will provide surface cleaning without removing the finish.

Blue Pads (Scrubbing) are used for heavy-duty scrubbing and light stripping. The blue pads remove less finish than brown stripping pads, yet will remove black marks, stains and dirt.

Brown Pads (Stripping) are used for easy and complete removal of old floor waxes/finishes. They will quickly remove ground in dirt, black heel marks, and spills. When used with the proper stripper, this pad leaves the floor clean and ready for finishing.

REPLACING OR INSTALLING SCRUB BRUSHES

The scrub brushes should be checked before each days work for wire, string, wear, or damage. The scrub brushes should be replaced if brush bristles are missing or if shorter than 5/8 inch.

NOTE: *For uniform scrubbing, scrub brushes must be replaced as a set.*

1. With the scrub deck up, turn off the machine and set the parking brake.
2. Loosen side squeegee locking knob, and pivot side squeegee away from scrub deck.
3. Locate release lever on top of brush or pad driver. With finger rotate release lever against spring pressure counter clockwise. Brush/pad driver will release and drop down.
4. To reinstall, center the cut out of the release lever plate on brush/pad driver to be installed under the brush drive hub.
5. Raise brush/pad drive up until assembly contacts brush hub. Rotate slightly until drive engages release lever plate.
6. While holding upward pressure, rotate brush/pad driver assembly clockwise. When fully engaged, release lever plate will rotate under spring pressure to lock assembly.

NOTE: *Check that release plate is completely closed and pad/brush is securely attached. Damage to driver or brush could occur.*

7. Repeat the procedure for the opposite side of the machine.

5. VACUUM FILTER

The vacuum filter is located inside the recovery tank. The vacuum filter prevents debris from entering the vacuum motor. Daily remove and clean filter of any debris for maximum airflow.

6. FLOAT SWITCH

The float switch is located inside the recovery tank. The purpose of the float switch is to notify the user that the recovery tank is full. When the float switch is activated, the scrub brush motors and solution flow will stop, the scrub deck will raise, the squeegee will rise after 60 seconds, and the vacuum motor will turn off 10 seconds later.

Icon appears on information screen 1 when float switch is activated.

7. SOLUTION STRAINER

The solution strainer is located behind the right rear wheel of the Glide. The solution strainer protects the solenoid valve from debris. If there is little or no solution flow to the ground, check the strainer for debris. Drain the solution tank and clean the solution strainer. To remove the strainer, turn the bottom part of the strainer counterclockwise until the bottom is separated. Clean out the debris from the wire mesh and re-assemble. Make sure the O-ring gasket is in place when re-assembled.

8. BRAKE

(Refer to Brake Group in the Parts section of the manual).

The brake pedal and parking brake operate the self-centering front wheel disc brake. The disc and caliper should be inspected every 200hours of operation for cracks and disc wear. The brake should be adjusted so that the disc pads are as close to the disc as possible, without causing brakes to drag.

BRAKE ADJUSTMENT

FOR SAFETY: Before leaving or servicing machine, stop on a level surface, turn off machine and remove key.

1. Disconnect batteries from machine.
2. Turn the steering wheel fully to the left.
3. Locate the brake adjustment screw on the brake caliper.
4. Loosen the lock nut.
5. Turn adjustment screw in until finger tight, then back off 1/8 turn.
6. Hold adjustment screw and tighten lock nut.

9. STEERING CHAIN TENSIONER

(Refer to Steering Group in parts section of manual).

The steering chain transfers power from the steering shaft to the drive wheel, controlling steering response. Check the chain condition and tension every 200 hours of operation. Proper chain tension is important to maintain steering response. The chain should deflect 1/16 in. Use a light spray lube if needed.

STEERING CHAIN TENSIONER ADJUSTMENT

1. Locate chain tensioner bolts.
2. To increase tension, tighten lock nuts retaining chain tension plate.
3. To decrease tension, loosen lock nuts retaining chain tension plate.

10. VACUUM MOTOR

(Refer to the Vacuum Group in the parts section of manual)

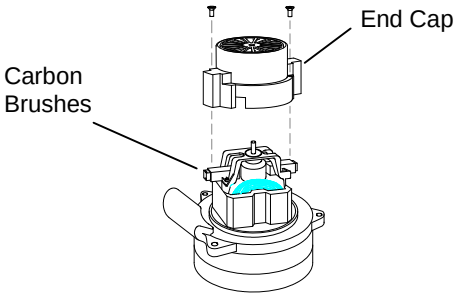
⚠ WARNING

Do not use a pressure washer to clean around the vacuum motors. Use tap pressure only. Care must be taken so that water is not directed into vacuum motor air intakes.

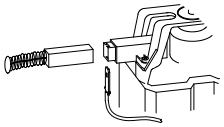
CHANGING VACUUM MOTOR

1. Remove side cover.
2. Disconnect electrical connector to the vacuum motor.
3. Loosen clamp and disconnect hose from vacuum intake.
4. Loosen clamp and disconnect vacuum muffler from vacuum outlet.
5. Remove vacuum motor mounting bracket bolts, which are located under frame.
6. Remove vacuum motor from mounting bracket assembly.
7. Reverse steps to install.

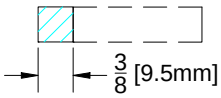
Vacuum Motor Carbon Brushes Replacement (Windsor)



If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.

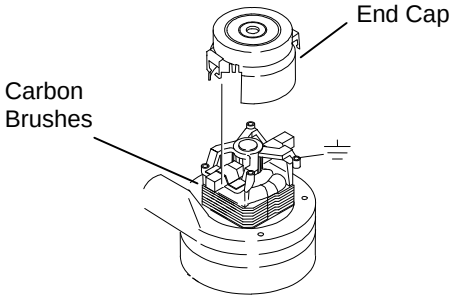


Important:
These brushes wear quicker as the length shortens due to increased heat. Spring inside brush housing will damage motor if brushes are allowed to wear away completely.

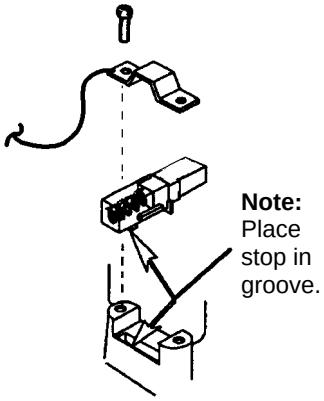


Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

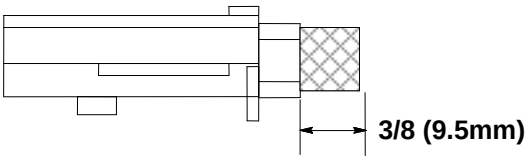
Vacuum Motor Carbon Brushes Replacement (Ametek)



If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



Important:
These brushes wear quicker as the length shortens due to increased heat. Spring inside brush housing will damage motor if brushes are allowed to wear away completely.



Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

11. BRUSH MOTOR

(Refer to Brush Motor Group in parts section of manual).

⚠ WARNING

Do not use a pressure washer to clean around the brush motors. Use tap pressure only.

CHANGING BRUSH MOTORS

1. With the scrub deck in the stored position, disconnect brush motor wiring connector from harness.
2. Loosen side squeegee locking knob, and pivot side squeegee away from scrub deck to access and remove scrub brushes or pad drivers.
3. Remove retaining bolt, lock washer, flat washer and star drive from brush motor shaft.
4. Remove 4 brush motor mounting bolts located under scrub deck.
5. Remove brush motor. If needed, lower scrub deck for more clearance.
6. Reverse steps to install.

BRUSH MOTOR CARBON BRUSH REPLACEMENT

1. Scribe alignment marks on motor barrel to motor cap and motor barrel to motor frame.
2. Remove end cap from motor.
   NOTE: *Motors contain two wave washers in cap. Do not lose these.*
3. Release brush from spring tension. Remove screw connecting brush wire lead to brush holder. Clean brush holder to insure free movement.
4. Install new brush and reinstall connecting screw and lead.
5. When all new brushes are installed. Place all in retracted position, held into brush holder by spring tension.
6. Carefully place end cap onto bearing on motor shaft.
   NOTE: On motors use care to assure wave washer alignment.
7. With end cap in partially installed position, release all brushes to contact position with motor commutator.
   NOTE: Failure to insure all brushes are released will result in motor failure.
8. Reset end cap and realign with scribe marks on motor barrel.
9. Maintain alignment between motor barrel base and cap, and between motor barrel and motor frame. Reinstall the two attach bolts from cap into base

12. TRACTION MOTOR

⚠ WARNING **Do not use a pressure washer to clean around the brush motors. Use tap pressure only**.

TRACTION MOTOR CARBON BRUSH REPLACMENT

FOR SAFETY: Before leaving or servicing machine, stop on a level surface, turn off machine and remove key.

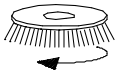
1. Disconnect batteries from machine.
2. Turn the steering wheel fully to the right.
3. Disconnect the electrical connection to the traction motor (keeping note of which wire is positive and negative). Use a wrench to hold locking nuts while loosening connector nut to prevent threaded stud from turning.
4. Scribe alignment mark on motor barrel to motor cap.
5. Remove end cap from motor.
   NOTE: *Motors contain two wave washers in cap. Do not lose these.*
6. Release brush from spring tension. Remove screw connecting brush wire lead to brush holder. Clean brush holder to insure free movement.
7. Install new brush and reinstall connecting screw and lead.
8. When all new brushes are installed. Place all in retracted position, held into brush holder by spring tension.
9. Carefully place end cap onto bearing on motor shaft.
   NOTE: On motors use care to assure wave washer alignment.
10. With cap end in partially installed position, release all brushes to contact position with motor commutator.
    NOTE: Failure to insure all brushes are released will result in motor failure).
11. Maintain alignment between motor barrel base and cap. Reinstall the two attach bolts from cap into base.

13. FUSE

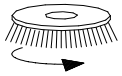
The fuse is a one-time circuit protection device designed to stop the flow of electrical current in the event of an electrical overload. If fuse is blown, it must be replaced.
The fuse is located inside the battery compartment.

14. CIRCUIT BREAKERS

Interrupt the flow of power in the event of an electrical overload. When a circuit breaker is tripped, reset it by pressing the exposed button. If a circuit breaker continues to trip, the cause of the electrical overload should be found and corrected.



25 Amp. Protects the left scrub brush motor.



25 Amp. Protects the right scrub brush motor.

15. SQUEEGEE ACTUATOR REMOVAL/REPLACEMENT

FOR SAFETY: Before leaving or servicing machine, stop on a level surface, turn off machine and set parking brake.

1. Remove squeegee to gain access to lift system.
2. Lower squeegee lift linkage, if possible, by pressing bottom of vacuum/squeegee switch and turn key to the off position.
3. Remove lower clevis pin by removing rue ring and washer from clevis pin, then pull pin out from squeegee lift bracket and actuator.
4. Remove upper clevis pin (ball detent type) by pulling on it's ring (located on left side), then pull it out from the frame and actuator. Pull actuator down to remove from the machine, make sure not to allow actuator barrel position to move.
5. Disconnect actuator from wire harness.
6. Reverse steps to install.

SQUEEGEE ACTUATOR ADJUSTMENT

The actuator will need to be adjusted when replaced. The actuator needs to be set such that it does not bind against itself in the raised/retracted position, and does not bind against the axle in the lowered/extended position.

To adjust the actuator:

1. While holding actuator barrel to prevent it from spinning, apply power to the actuator such that it is fully extended. Positive power to white wire, and negative/ground to black. Limit switch within actuator will stop it.
2. Turn barrel out one or more full turns to assure that when it is retracted it will not bind against itself.
3. While holding actuator barrel to prevent it from spinning, apply power to the actuator such that it is fully retracted. Positive power to black wire, and negative/ground to white wire. Limit switch within actuator will stop it.
4. With actuator fully retracted, turn barrel in until it touches the base of the threaded shaft.
5. At the bottomed out position, turn the barrel out **1 full turn**, then enough to allow connection to lift linkage.
6. Connect actuator to lift linkage and check that in the raised/retracted position it does not bind against itself, and in the lowered/extended position does not bind against the axle
7. If further adjustment is needed, disconnect the actuator from squeegee lift linkage and turn the barrel one half-turn at a time in to eliminate binding against axle, or out to eliminate binding against itself.

16. SCRUB DECK ACTUATOR REMOVAL/REPLACEMENT

FOR SAFETY: Before leaving or servicing machine, stop on a level surface, turn off machine and set parking brake.

1. Lower scrub deck, if possible, by pressing one-touch switch and turn key to off position.
2. Remove lower clevis pin by removing rue ring from clevis pin, then pull pin out from scrub deck lift bracket and actuator.
3. Remove upper clevis pin (ball detent type) by pulling on it's ring (located on left side), then pull it out from the frame and actuator. Remove from the machine, make sure not to allow actuator barrel position to move.
4. Disconnect actuator from wire harness.
5. Reverse steps to install.

SCRUB DECK ACTUATOR ADJUSTMENT

The actuator will need to be adjusted when replaced. The actuator needs to be set such that the scrub deck stops barely touch the rubber bumpers on the frame in the raised/retracted position.

To adjust the actuator:

1. While holding actuator barrel to prevent it from spinning, apply power to the actuator such that it is fully extended. Positive power to white wire, and negative/ground to black. Limit switch within actuator will stop it.
2. Turn barrel out one or more full turns to assure that when it is retracted it will not bind against itself.
3. While holding actuator barrel to prevent it from spinning, apply power to the actuator such that it is fully retracted. Positive power to black wire, and negative/ground to white wire. Limit switch within actuator will stop it.
4. With actuator fully retracted, turn barrel in until it touches the base of the threaded shaft.
5. At the bottomed out position, turn the barrel out **3 full turns**, then enough to allow connection to lift linkage.
6. Connect actuator to lift linkage and check that in the raised/retracted position the stops on the scrub deck barely touch the rubber bumpers on the frame.

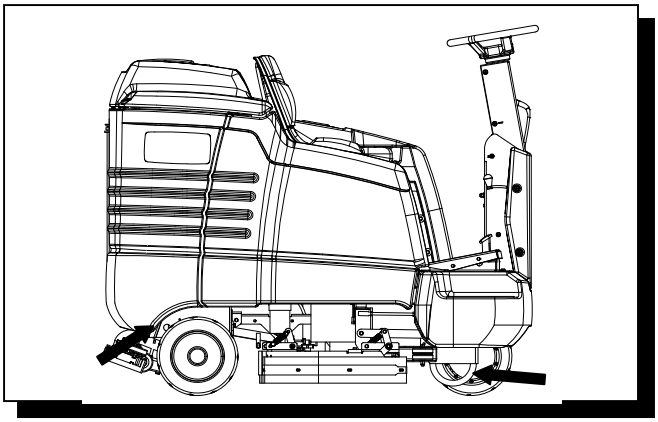
NOTE: If further adjustment is needed, disconnect the actuator from scrub deck lift linkage and turn the barrel one half-turn at a time in to make scrub deck stops closer to bumpers, or out to eliminate excessive pressure against bumpers.

TRANSPORTING MACHINE

TOWING OR PUSHING MACHINE

The machine may be towed for short distances at speeds not to exceed 5 mph. Be careful to avoid damaging machine. Attach towing device at tie down point. The machine may be pushed by hand from the rear.

NOTE: *To avoid damage caused by regenerative voltage, disconnect traction motor before towing or pushing machine.*



MACHINE TIE-DOWNS

There are two tie points located at the rear, side of the machine frame and two at the front corners. Tie-down devices must be of the proper type and strength. The combined strength of all tie-downs must be strong enough to lift two times the weight of the machine. Tie-downs must be positioned to prevent the machine from moving forward, backward, or either side to side. Use all four corners of the machine with the tie-downs running out opposite directions. Tie-downs must be attached to the transporting vehicle securely.

PREPARATION FOR TRANSPORTING

Remove squeegee tool to eliminate interference with tie-downs.

Scrub head must be in the up position before loading.

NOTE: *When transporting the machine on a trailer or in a truck, in addition to using tie-downs, be sure to set the parking brake, and block the tires to prevent the machine from rolling.*

MACHINE JACKING
The machine may be jacked up for service or inspection by using the specified jack locations. Always block the tires when jacking up the machine.

FOR SAFETY: Before leaving or servicing machine; Stop on level surface, set parking brake, turn off machine and remove key.

The rear jack points are the frame just behind the rear wheels. Remove the squeegee tool before jacking.
NOTE: *See Squeegee Tool Removal in Maintenance Section.*
The front jacking point is the front bumper.

TO JACK UP MACHINE
1. Empty the recovery and solution tank.
2. Turn the key switch off and set the parking brake.

FOR SAFETY: Before leaving or servicing machine; Stop on level surface, set parking brake, turn off machine and remove key.

3. Block the tires that are not being raised to prevent the machine from rolling.

FOR SAFETY: When servicing machine, block machine tires before raising machine.

4. Using a jack of adequate capacity. Raise the machine using the designated jack points.

FOR SAFETY: When servicing machine, use hoist or jack of adequate capacity, jack machine at designated jack locations only. Block machine with jack stands when raised.

5. When machine is raised, use jack stands at the designated jack locations.
   Support the front of the machine by placing jack stands or solid wood blocks under the U-shaped stabilizer bars.

FOR SAFETY: Block machine at designated jack locations with jack stands when raised.

6. Slowly lower the machine onto the jack stands.
7. Be sure that the machine is secure.
8. Service or inspect the machine as required.
9. When finished working on the machine, raise the machine off the jack stands.
10. Remove the jack stands.
11. Lower the machine to the floor. Block wheels as they are lowered.
12. Remove wheel block after machine has been completely lowered.

MACHINE STORAGE
If the machine is to be stored for extended periods of time, the following steps must be taken to minimize the chance of corrosion or deposits forming.

1. Drain both solution and recovery tanks. Clean soil and chemical build up from tank. Flush with clean water including the solution delivery system. Leave solution tank lid and recovery tank dome open.
2. Raise the rear squeegee assembly and the scrub deck.
3. Remove brushes and rinse with clean water. Dry thoroughly.
4. Wash squeegee blades with clean water.
5. Park the machine in a cool, dry area.
6. Check the charge level of the batteries monthly. Recharge when batteries drop below 25% charge.
   If suitable space exists to store batteries from machine, remove from machine.
7. Perform next lubrication interval.

SERVICE SCHEDULE

MAINTENANCE	BEFORE EACH WORK PERIOD	AFTER EACH WORK PERIOD	50 HRS	100 HRS	200 HRS
Check water level of batteries after charging; add distilled water if necessary	*				
Check that recovery tank cover seals tightly	*				
Visually check for damaged or worn tires	*				
Check brushes or pads for proper installation	*				
Check vacuum hose connections	*				
Check that squeegee is securely attached and properly adjusted	*				
Check that side squeegees are properly adjusted	*				
Check for securely attached drain hose, plug and caps	*				
Check brakes and steering for proper operation	*				
Inspect vacuum filter for debris		*			
Clean out solution tank and filter, check flow		*			
Run vacuum motors to dry		*			
Clean brushes or pads and check wear		*			
Clean main and side squeegee blades and check wear		*			
Clean out recovery tank and vacuum filter		*			
Clean and inspect float shutoff		*			
Clean outside of tanks, check for damage		*			
Store with covers off tanks		*			
Charge batteries		*			
Check side squeegee for wear			*		
Clean off top of batteries			*		
Check battery cells with hydrometer			*		
Inspect scrub deck skirts			*		
Clean solution strainers			*		
Check battery connections are tight			*		
Clean battery cases and battery compartment				*	
Check parking brake adjustment					*
Check brakes discs and calipers for damage or wear					*
Clean pivot points on squeegee and scrub deck					*
Check all motors for carbon brush wear					*
Check motor commutators					*
Check steering chain tensioner					*

NOTE: Traction drive, wheels and batteries should be serviced based on traction drive hour meter. The scrub brush hour meter should be used for all other service schedule items.

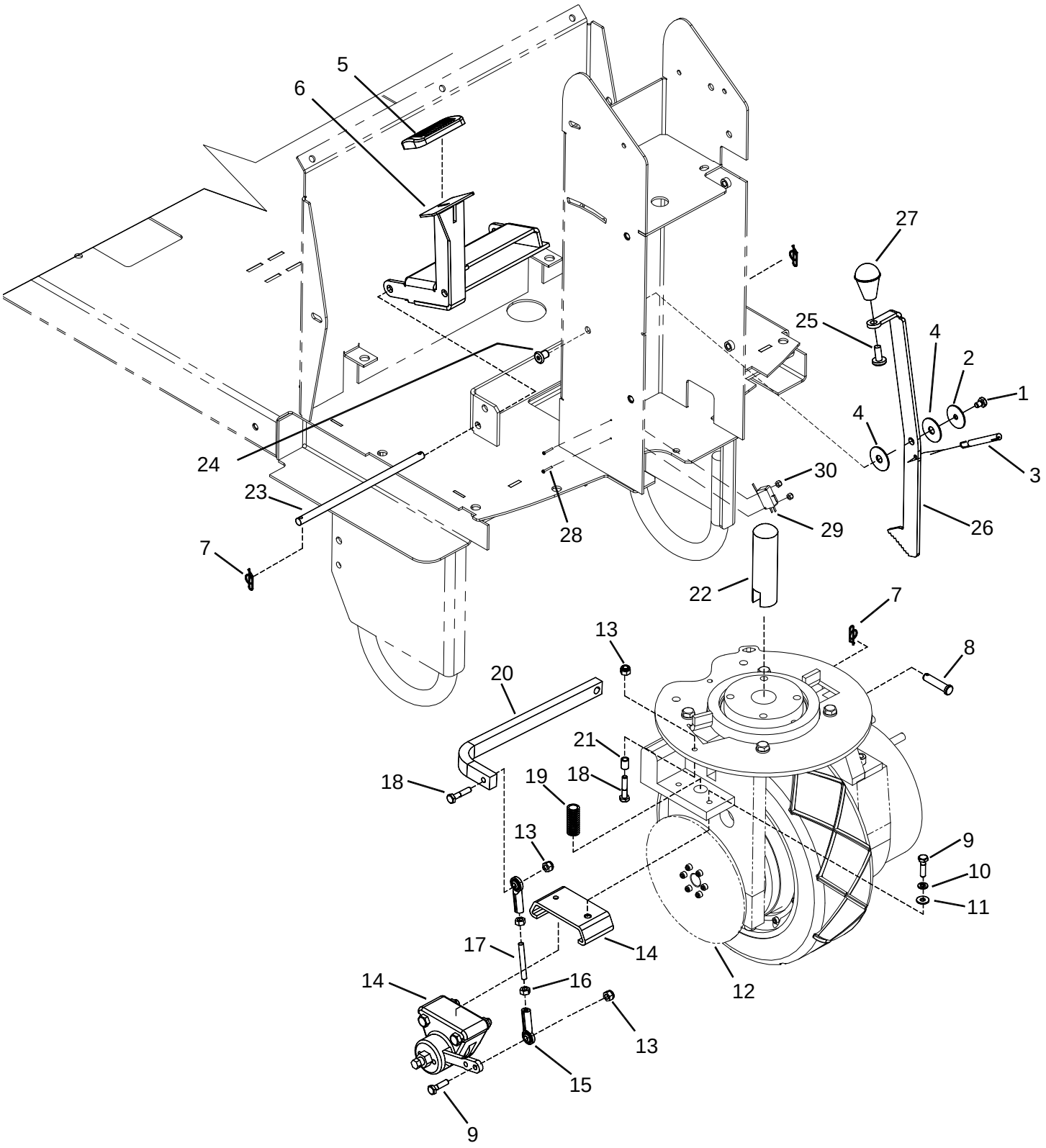
PROBLEM	CAUSE	ERROR CODE	SOLUTION
No power to machine	Battery disconnected		Check connections of all battery cable connections
	Emergency shut-off activated		Reset
	Battery cables corroded		Clean connections
	Main fuse blown		Replace fuse
	Faulty key switch		Replace switch
Little or no propel	Low battery charge		Charge batteries
	Machine turned on with pedal not in neutral position		Allow pedal to return to neutral Restart.
	Wheels spin		Decrease brush pressure
	Controller overheated	7802/7801	Allow cool down period
	Loose motor connection	7800	Check wires and connections from controller to motor
	Loose throttle connections or faulty throttle potentiometer	0814	Check wires and connections from throttle to LCD and potentiometer resistance
	Loose brake switch connection or faulty brake switch		Check connections and switch continuity
	Loose seat switch connection or faulty seat switch		Check connections and switch continuity
Forward speed only	Faulty throttle		Check throttle
Reverse speed only	Faulty throttle		Check throttle
Poor or no water pick-up	Squeegee out of adjustment		Adjust squeegee
	Debris caught on squeegee		Remove debris
	Worn squeegee blades		Rotate or replace squeegee blades
	Vacuum hose clogged		Clear obstruction from hose
	Vacuum hose disconnected from squeegee or recovery tank		Reconnect vacuum hose
	Vacuum hose damaged		Replace hose
	Vacuum motor inlet filter dirty		Clean or replace inlet filter
	Recovery tank not sealed		Replace damaged seals
	Foam filling recovery tank		Empty recovery tank use less or different detergent Use defoamer
Squeegee will not go up/down	Faulty actuator		Repair/replace actuator
	Loose connection		Check wires and connections from controller to actuator

MACHINE TROUBLESHOOTING

PROBLEM	CAUSE	ERROR CODE	SOLUTION
Vacuum motor does not run, or runs slowly	Recovery tank full		Drain recovery tank
	Recovery tank float switch dirty		Clean float switch
	Loose motor connection	7700	Check motor wires and connections
	Worn vacuum motor brushes		Replace brushes, check commutator
Poor scrubbing performance	Debris caught in scrub brushes		Remove debris
	Worn brushes or pads		Replace brushes or pads
	Improper detergent, brush or pad used		Contact equipment or application specialists
	Low scrub brush down pressure		Increase brush pressure
	Low battery charge		Charge batteries
Little or no solution flow to the floor	Solution tank empty		Fill solution tank
	Solution flow turned off or set too low		Turn on or increase flow setting
	Solution strainer plugged		Clean solution strainer
	Solution system plumbing obstructed		Clear obstruction from plumbing
	Solution solenoid valve obstructed or stuck		Clean or replace valve
	Vent hole in solution tank lid obstructed		Clear obstruction from vent hole
	Faulty solenoid valve connection		Check wiring to solution valve
Brush motors do not run, or run slowly	Circuit breaker(s) tripped	7600	Reset circuit breaker(s)
	Low battery charge		Charge battery
	Loose connection	7600	Check motor wires and connection
	Worn brush motor brushes		Replace brushes, check commutator
Scrub deck will not go down/up	Faulty actuator	9000	Repair/replace actuator
	Loose connection	9000	Check motor wires and connections
Scrub deck goes down, then raises	No brushes or pad drivers on machine	9000	Install brushes or pad drivers
Error code not listed is displayed	Controller detects electrical problem		Contact service technician

PARTS LIST

BRAKE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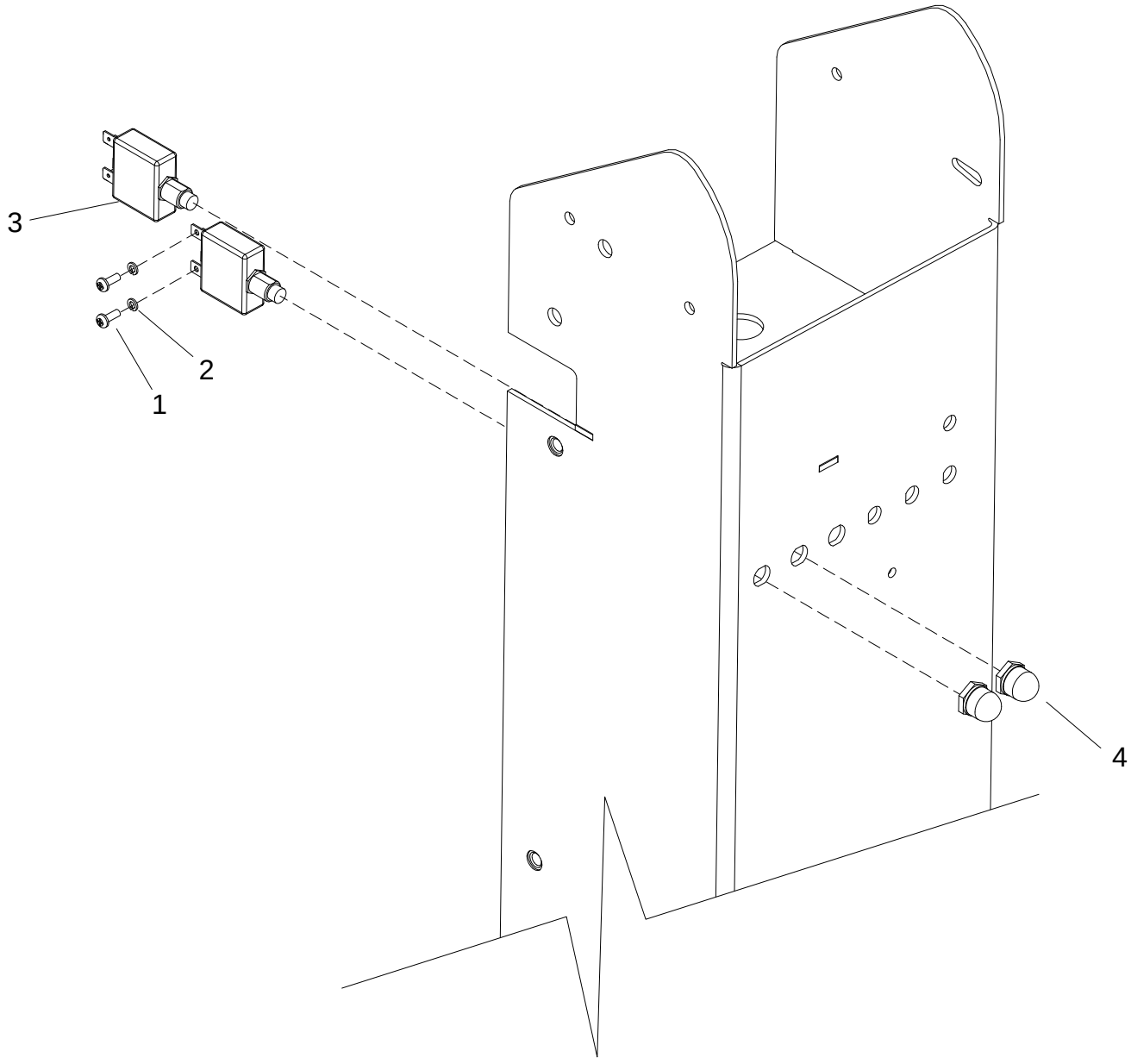
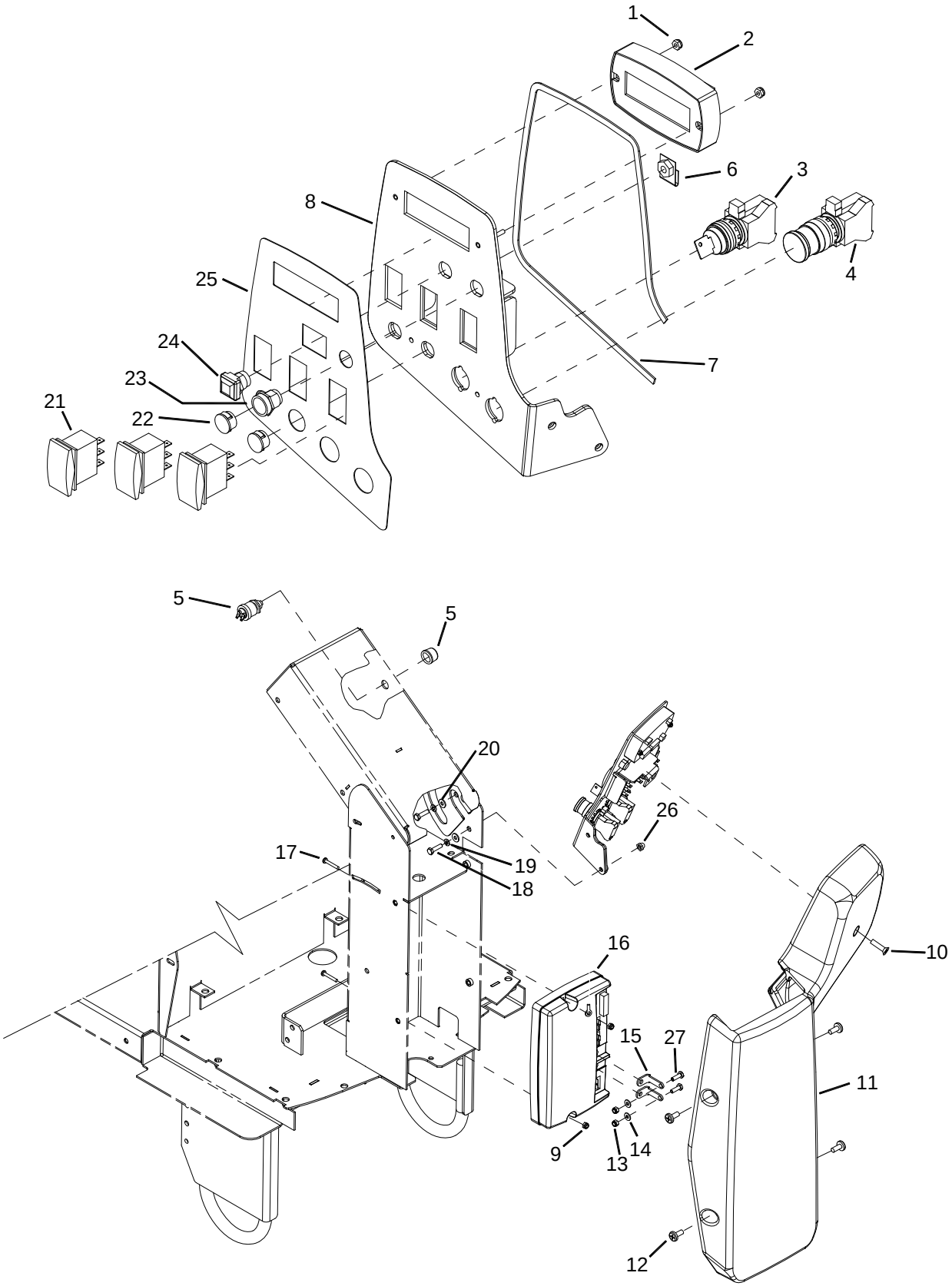
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86276880	70751	1	SCR, 1/4-20 X 3/8 HHCS SS		
2	86010730	87008	1	WASHER, 1/4ID X 1-1/4OD PLTD		
3	86255560	82855	1	SPRING, .31 X .04 X 3.0 EXT CS ZC		
4	86279620	87200	2	WASHER, .4ID X 1.3OD NYLON		
5	86355600	-	1	PAD, BRAKE PEDAL		
6	86355540	-	1	PEDAL, BRAKE SRS		
7	86008670	80606	3	COTTER, 3/8” RING		
8	86248980	81438	1	PIN,CLEVIS 3/8” X 1.75 PLTD		
9	86273810	70018	3	SCR, 1/4-20 X 1 HHCS SS		
10	86010780	87162	2	WASHER, 1/4 SPLIT LOCK PLTD		
11	86010630	87013	2	WASHER, 1/4ID X 5/8OD SS		
12	86215650	29251	1	DISK, BRAKE		
13	86005810	57245	3	NUT, 1/4-20 HEX NYLOCK SS		
14	86073850	140466	1	CALIPER, CLOCKWISE BRAKE		
14A	86135470	83050	1	CALIPER ACTUATING PIN		SERVICE ONLY
14B	86134940	83051	1	BACKING PLATE, CALIPER		SERVICE ONLY
14C	86135480	83052	1	PUCK CALIPER		SERVICE ONLY
14D	86010330	83053	1	CALIPER, ANVIL SUB-ASSEMBLY		SERVICE ONLY
15	86251790	67480	2	ROD END, BALL JOINT 1/4-28		
16	86271600	57225	2	NUT, 1/4-28 HEX		
17	86065800	05003	1	ARM, LOWER VAC CONTROL		
18	86273820	70019	2	SCR, 1/4-20 X 1.25 HHCS		
19	86254960	730266	1	SPRING, COMP .67 OD X 1.63 X .08		
20	86066010	140458	1	ARM, BRAKE LEVER		
21	86087430	73206	1	SPACER, 3/8OD X .058W X 1/2L CRS		
22	86252040	67470	1	ROD, BRAKE PUSH		
23	86078400	66356	1	PIN, CLEVIS 0.375 X 8.26L		
24	86005860	57273	1	NUT, 1/4-20 X 12MM HEX BARREL		
25	86276890	70752	1	SCR, 5/16-18 X 3/4 PTHMS SS		
26	86077270	51367	1	LEVER, PARKING BRAKE		
27	86004800	48030	1	KNOB		
28	86006720	70245	2	SCR, 4-40 X 3/4 PPHMS		
29	86028630	72082	1	SWITCH, SOL LEVER BENT		
30	86271280	57163	2	NUT, 4-40 W/STAR WASHER		

CIRCUIT BREAKER GROUP



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86273990	70067	4	SCR, 6-32 X 3/8 PPHMS		
2	86279300	87134	4	WASHER, #6 LOCK		
3	86001920	14607	2	BREAKER, 25A 50VDC CIRCUIT		
4	86008900	80845	2	BOOT, SEAL-PUSH BUTTON 7/16-28		

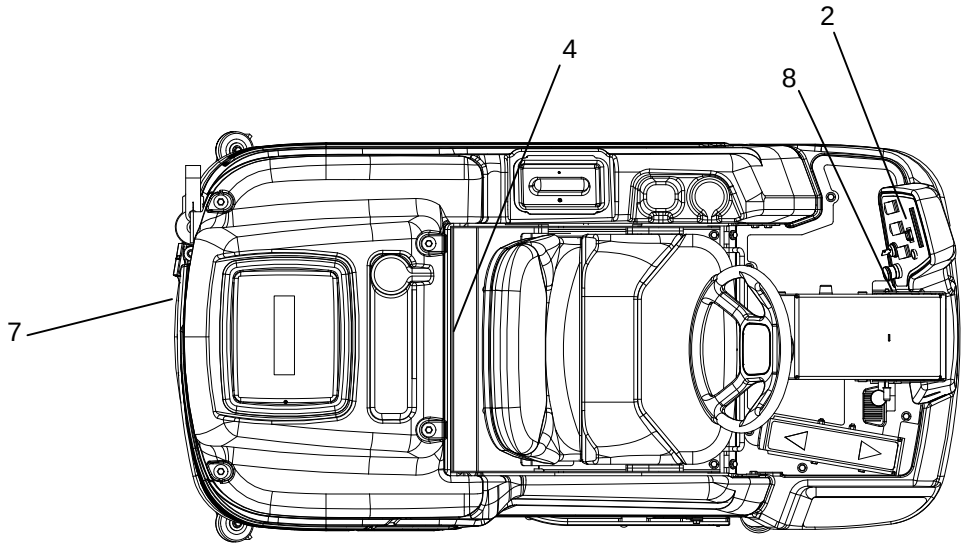
CONTROL PANEL

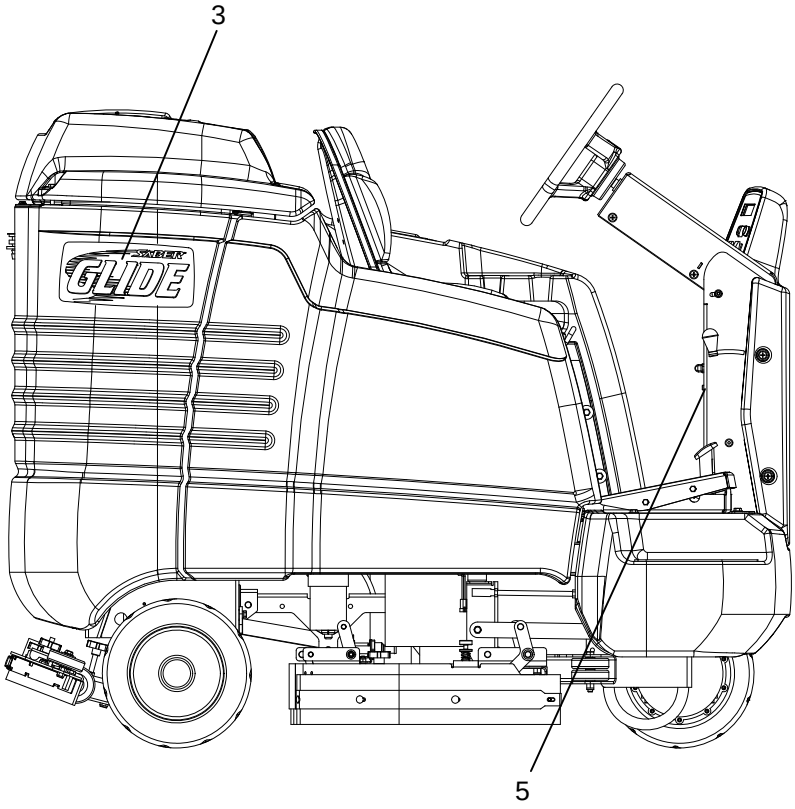


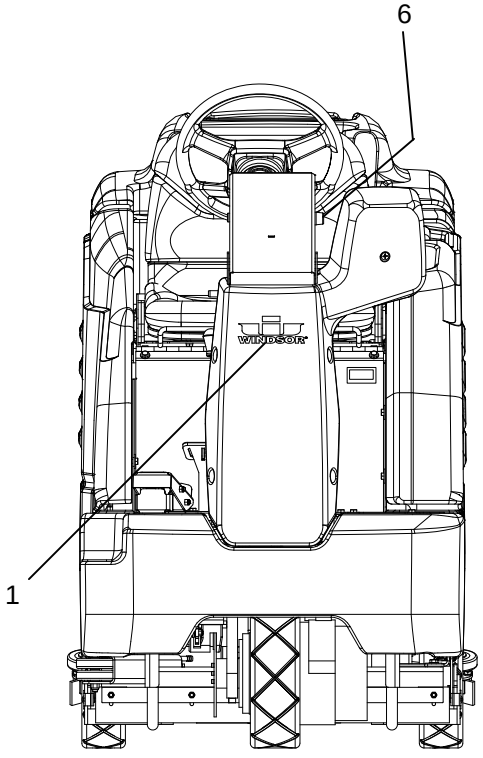
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86122670	57049	2	NUT, 6-32 HEX NYLOCK SS		
2	86005550	54183	1	MODULE, LCD		
3	86007190	72161	1	SWITCH, KEY DPST		
3B	86004860	48073	REF	KEY		SERVICE ONLY
4	86007180	72160	1	SWITCH, EMERGENCY STOP		
5	86257280	81371	1	SWITCH, PUSH BUTTON		
6	86271820	57270	1	NUT, 5/16-18 CAPTIVE “J” PLTD		
7	86238000	36216	1	GASKET, .06T X .25W X 26.5L		
8	86093320	66364	1	PANEL CONTROL		
9	86270990	57090	2	NUT, 10-32 HEX NYLOCK SS		
10	86276900	70753	1	SCR, 5/16-18 X 1-1/4 PFHMS SS		
11	86003230	27936	1	COVER, FRONT SMALL RIDER		
12	86276890	70752	4	SCR, 5/16-18 X 3/4 PTHMS SS		
13	86271910	57295	2	NUT, 5/16-18 FLEXLOCK		
14	86010670	87029	2	WASHER, 5/16 FLAT SS		
15	86068850	140219	2	BRACKET, CABLE ATTACH	*(1)	
16	86002660	270070	1	CONTROLLER, GLIDE 28/32		
17	86274410	70195	2	SCR, 10-32 X 1.25 SS		
18	86273810	70018	2	SCR, 1/4-20 X 1 HHCS SS		
19	86010780	87162	2	WASHER, 1/4 SPLIT LOCK		
20	86010630	87013	2	WASHER, 1/4ID X 5/8 OD SS		
21	86007520	730142	3	SWITCH, SPDT 3-POSITION MOM		
22	86250190	66365	2	PLUG, DD .625-.550		
23	86007480	730124	1	SWITCH ASM, SEALED PUSHBUTTON		
24	86257210	730123	1	SWITCH ASM, SEALED PUSH SQ		
25	86243510	500563	REF	LABEL, CONTROL PANEL		
26	86271940	57299	1	NUT, 1/4-20 ACORN SS		
27	86275760	70540	2	SCR, 5/16-18 X 1 HHCS GR8 PLTD	*(1)	

*SEE SERIAL NUMBER PAGE.

DECAL GROUP



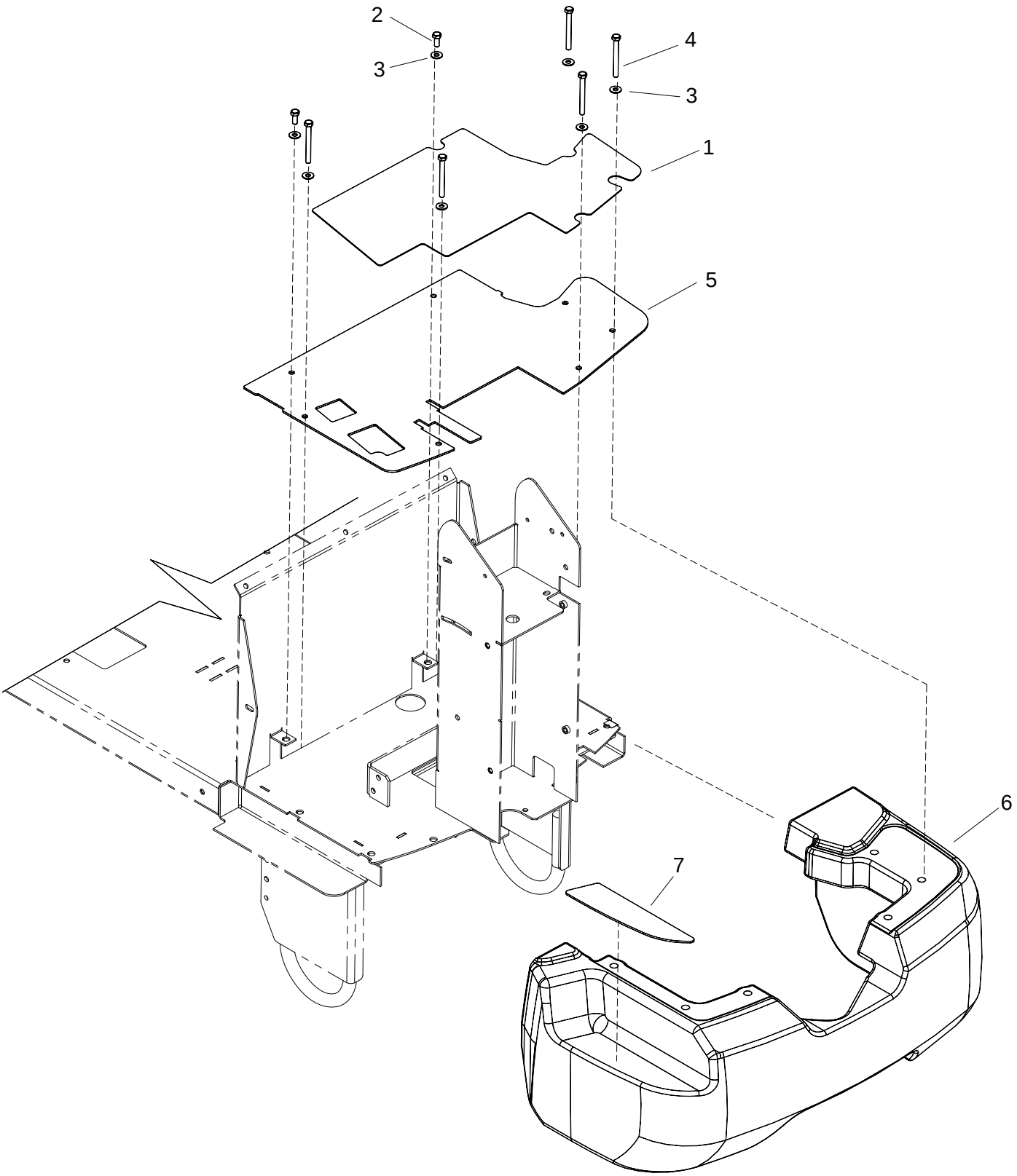




REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86244060	500815	1	LABEL, JOHNTEC DOME (GRAY)		
2	86243510	500563	1	LABEL, CONTROL PANEL		
3	86243570	500574	2	LABEL, GLIDE		
4	86243500	500562	1	LABEL, SRS CHARGING		
5	86244130	500859	1	LABEL, CIRCUIT BREAKER GLIDE		
6	86248210	81349	1	OVERLAY, HORN		
7	86243580	500575	1	LABEL, SOLUTION FILL GLIDE		
8	86243820	500662	1	LABEL, COVER SMALL RIDER		

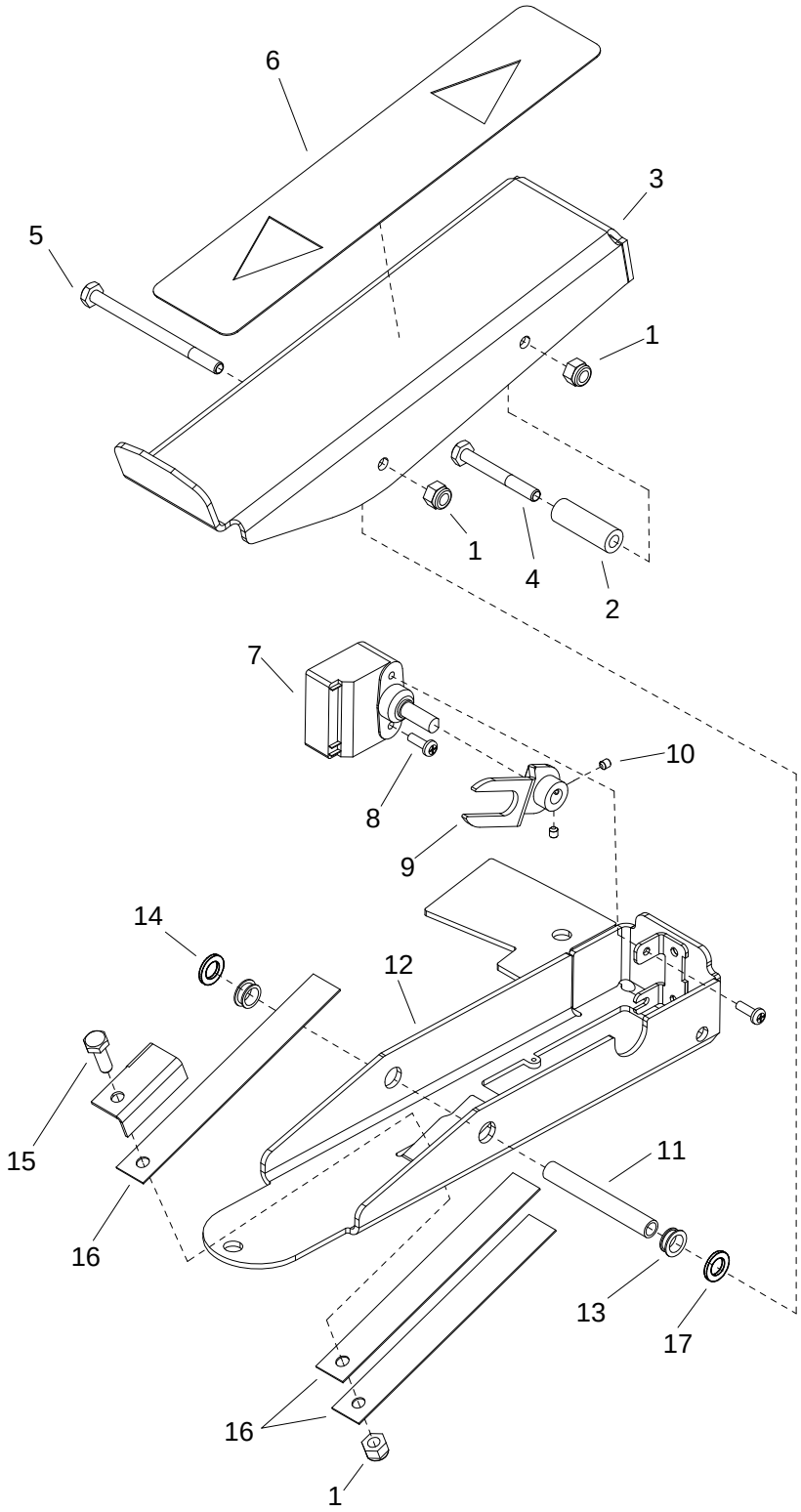
NOTE: SEE “SAFETY LABEL LOCATION” PAGE FOR SAFETY LABEL INFORMATION.

FRONT BUMPER & FLOOR



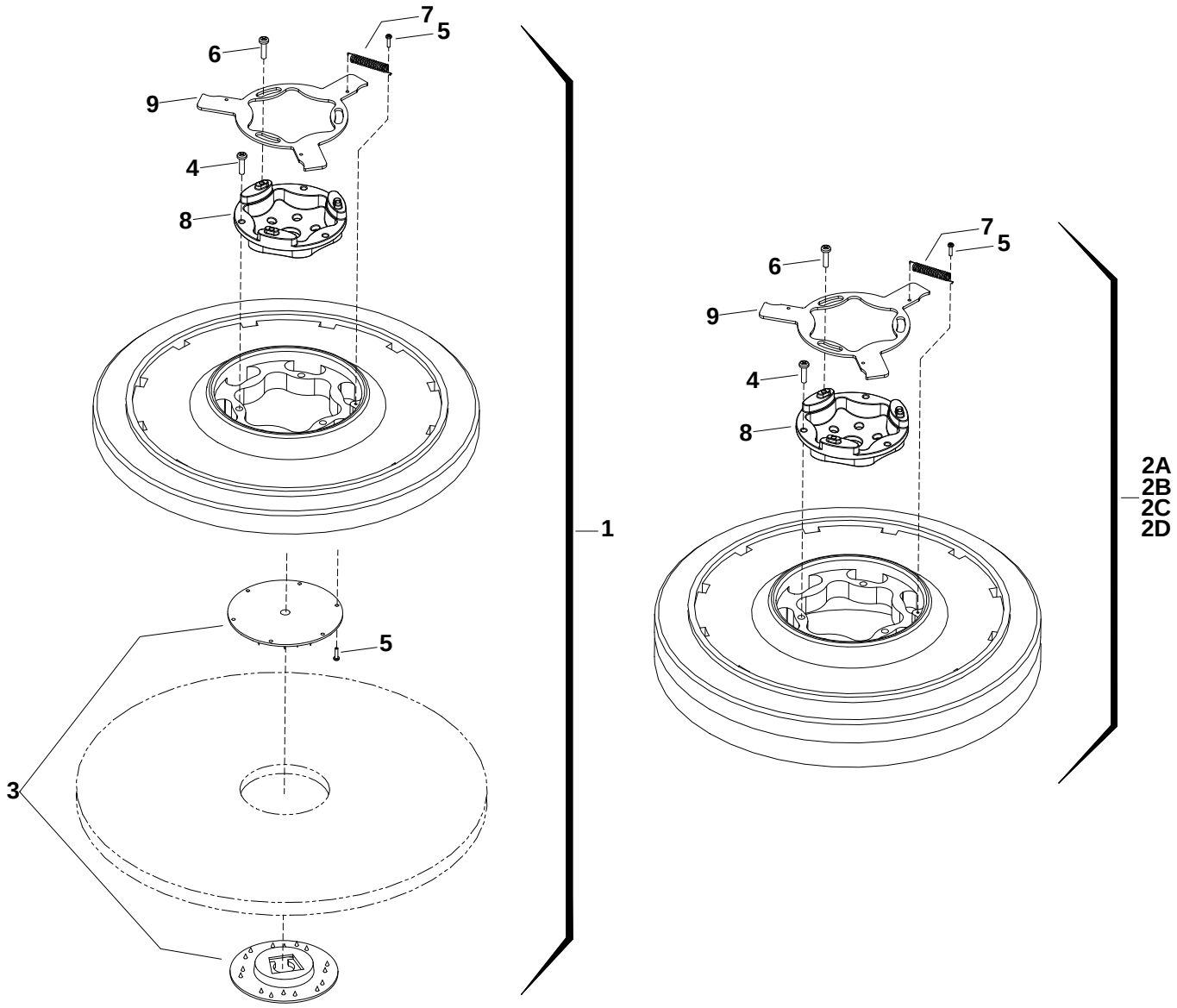
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86248350	66360	1	PAD, FLOOR		
2	86276780	70728	2	SCR, 5/16-18 X 3/4 HHCS SS		
3	86010670	87029	7	WASHER, 5/16 FLAT SS		
4	86276910	70754	5	SCR, 5/16-18 X 3 HHCS SS NP		
5	86082320	62952	1	PLATE, FLOOR		
6	86031820	27934	1	COVER, BUMPER SMALL RIDER		
7	86248360	66361	1	PAD, STEP		

FORWARD/REVERSE PEDAL



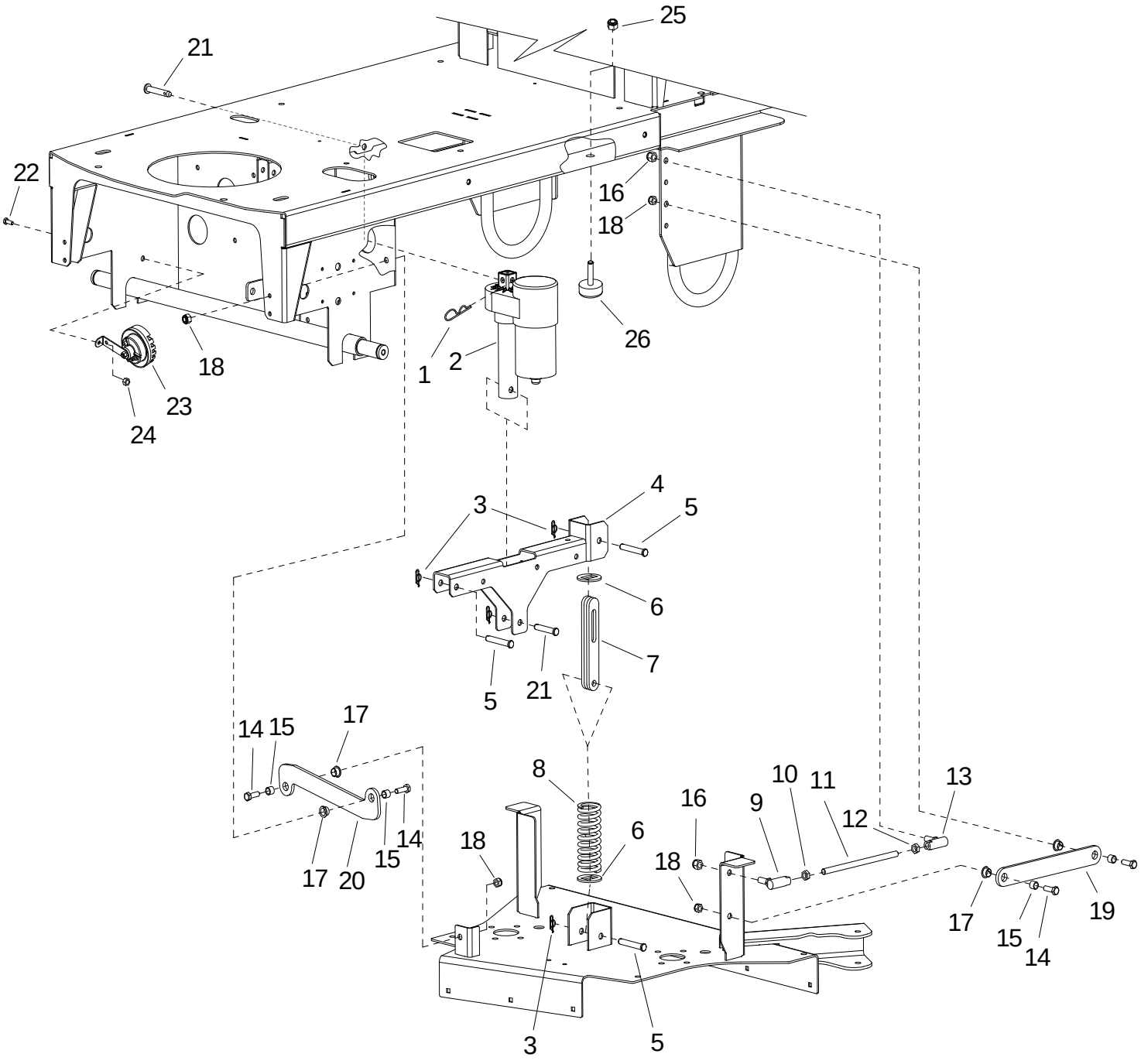
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86005810	57245	3	NUT, 1/4-20 HEX NYLOCK SS		
2	86007380	730088	1	SPACER, .50D X .26ID X 1.5L		
3	86078310	66382	1	PEDAL, SMALL RIDER		
4	86273850	70022	1	SCR, 1/4-20 X 2 HHCS		
5	86276940	70758	1	SCR, 1/4-20 X 3.5 HHCS SS NP		
6	86248340	66346	1	PAD, FWD/REV PEDAL		
7	86006330	66343	1	POTENTIOMETER, THROTTLE		
8	86276930	70757	2	SCR, 8X1/2 PPH TYPE B SMS SP		
9	86093140	51379	1	LINK, SMALL RIDER THROTTLE		
10	86278060	70759	2	SET SCR, M4 X 4MM NP		
11	86089660	78532	1	TUBE, 3/8 OD X 2.96 L		
12	86091500	140577	1	BASE, SMALL RIDER PEDAL		
13	86228750	09082	2	BEARING, 3/8” FLANGED NYLON		
14	86373780	70015	1	SCR, 1/4-20 X 3/4 HHCS SS NP		
15	86010300	830117	1	BRKT, SPRING ALIGNMENT		
16	86010290	830116	3	SPRING, FLAT		
17	86010680	87030	2	WASHER, 3/8 ID X 3/4 OD NYLON		

SCRUB BRUSH/PAD DRIVER



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86000290	02418	2	PAD DRIVER, 16” SD		
2A	86000300	02419	2	BRUSH, 16” POLYPROPYLENE SD		
2B	86000310	02420	2	BRUSH, 16” NYLON SD		
2C	86000330	02422	2	BRUSH, 16” MILD GRIT SD		
2D	86000340	02423	2	BRUSH, 16” SUPER AGG SD		
3	86005070	51284	1	LOCK, PAD CENTER SNAP, TWO STEP		
4	86276590	70695	3	SCR, #12 X 1 PPHSMS SS		
5	86276580	70694	1	SCR, 8-32 X 3/4 PTHMS		
6	86276600	70696	3	SCR, #10 X 3/4 PTHSMS SS		
7	86007910	73817	1	SPRING, EXT .31 D X 2.0 L X .03 W SS		
8	86007280	730011	1	SOCKET, DRIVE BRUSH		
9	86005940	62852	1	PLATE, BRUSH RELEASE		

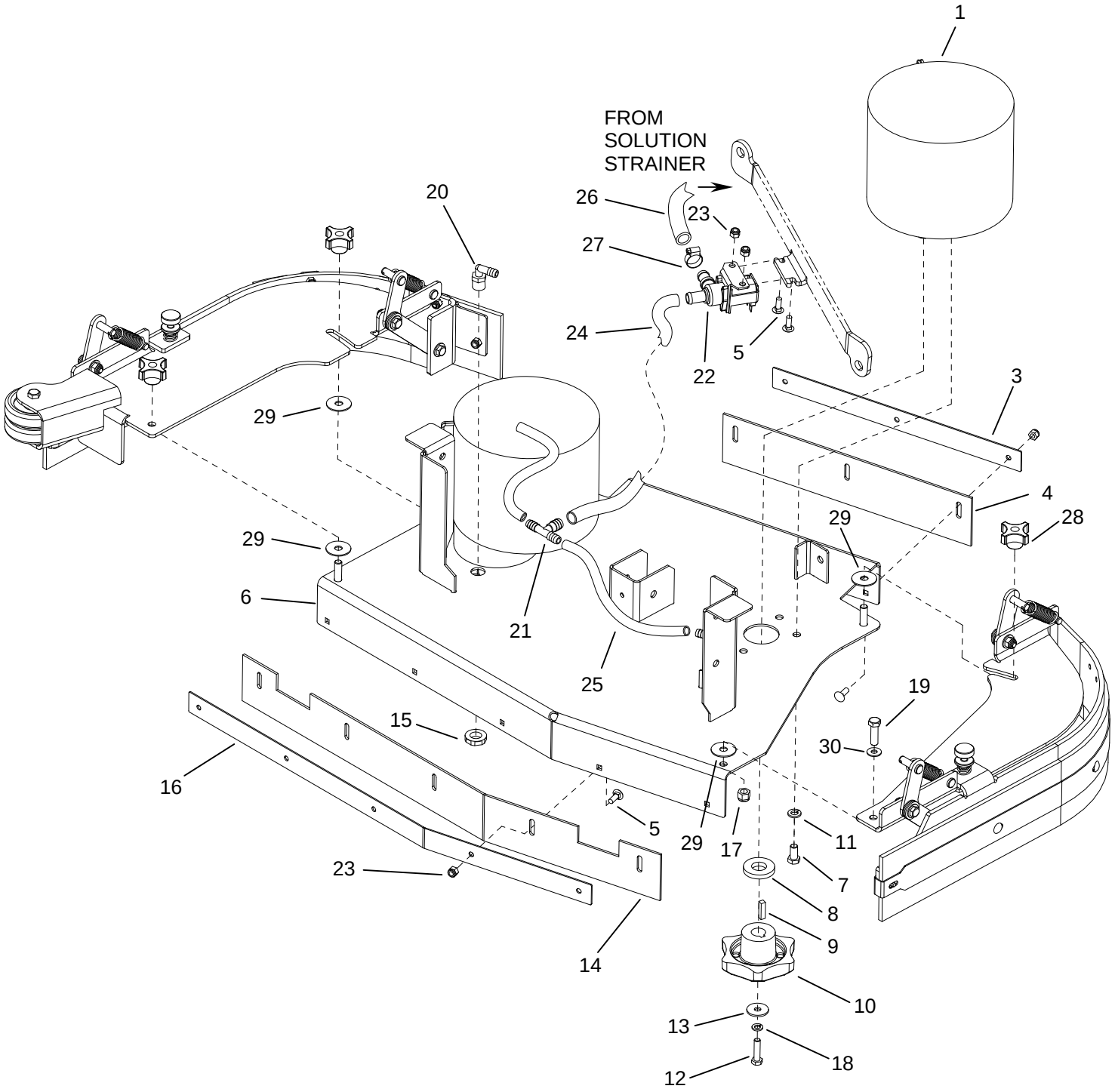
SCRUB DECK LIFT-32 IN



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86272600	80657	1	PIN, COTTER, HAIR. 148" DIA X 3/4	*(2)	
2	86352950	-	1	ACTUATOR, 36VDC 2.0 STRK	*(7)	
3	86008670	80606	4	COTTER, 3/8" RING		
4	86092250	29254	1	DECK LIFT ASM		
5	86008720	80637	3	PIN, CLEVIS 3/8" X 2.375 PLTD		
6	86090270	87204	2	WASHER, RECTANGULAR HOLE		
7	86077470	51362	2	LINK, DECK LIFT		
8	86254880	730005	1	SPRING, COMP 1.687OD X 4.5L X .234W		
9	86001320	140353	2	BALL JOINT ASSY, 3/8-24 LH		
10	86005830	57263	2	NUT, 3/8-24 UNF LH		
11	86006440	67415	2	ROD, SCRUB LIFT		
12	86005800	57217	2	NUT, 3/8-24 HEX JAM		
13	86008810	80697	2	BALL JOINT ASSY, 3/8-24 RH		
14	86276920	70755	6	SCR, 3/8-16 X 1 HHCS SS NP		
15	86008460	80102	6	SPACER, .500OD X .391ID X .400		
16	86271530	57216	4	NUT, 3/8-24 HEX NYLOCK		
17	86009050	81324	6	BEARING, 1/2ID X 11/32L NYLON		
18	86005630	57022	6	NUT, 3/8-16 HEX NYLOCK THIN SS		
19	86077330	31373	2	LINKAGE, .25 X 1.25 X 9.25		
20	86066790	140503	1	BAR, PANHARD		
21	86248970	81406	2	PIN, CLEVIS 3/8 X 2		
22	86276780	70728	1	SCR, 5-16-18 X 3/4 HHCS SS		
23	86008550	80583	1	HORN, 36VDC		
24	86270830	57023	1	NUT, 5/16-18 HEX NYLOCK SS		
25	86005740	57112	2	NUT, 5/16-18 SERRATED FLG		
26	86008740	80654	2	BUMPER, ADJUSTMENT		

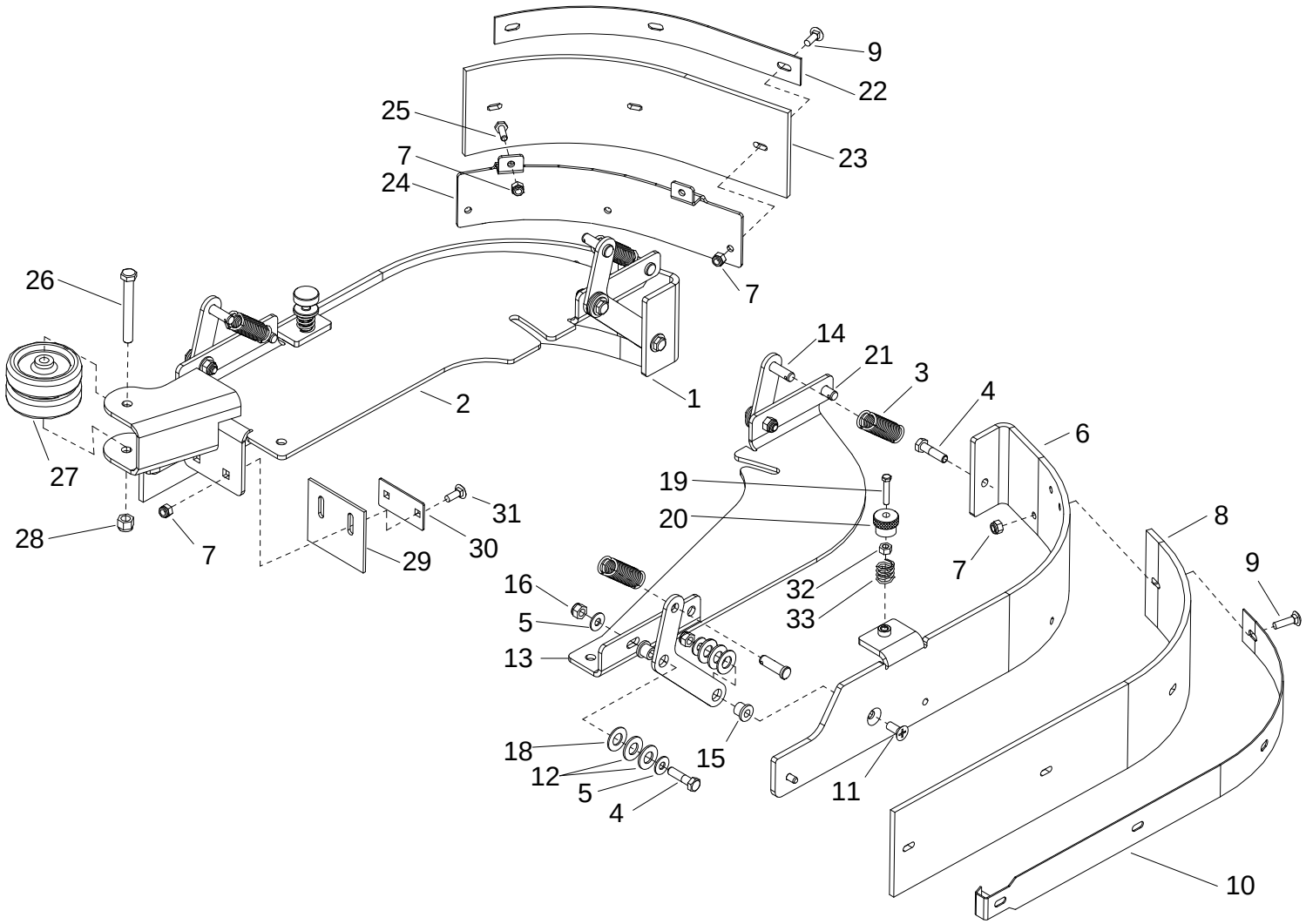
*SEE SERIAL NUMBER PAGE.

SCRUB DECK -32 IN



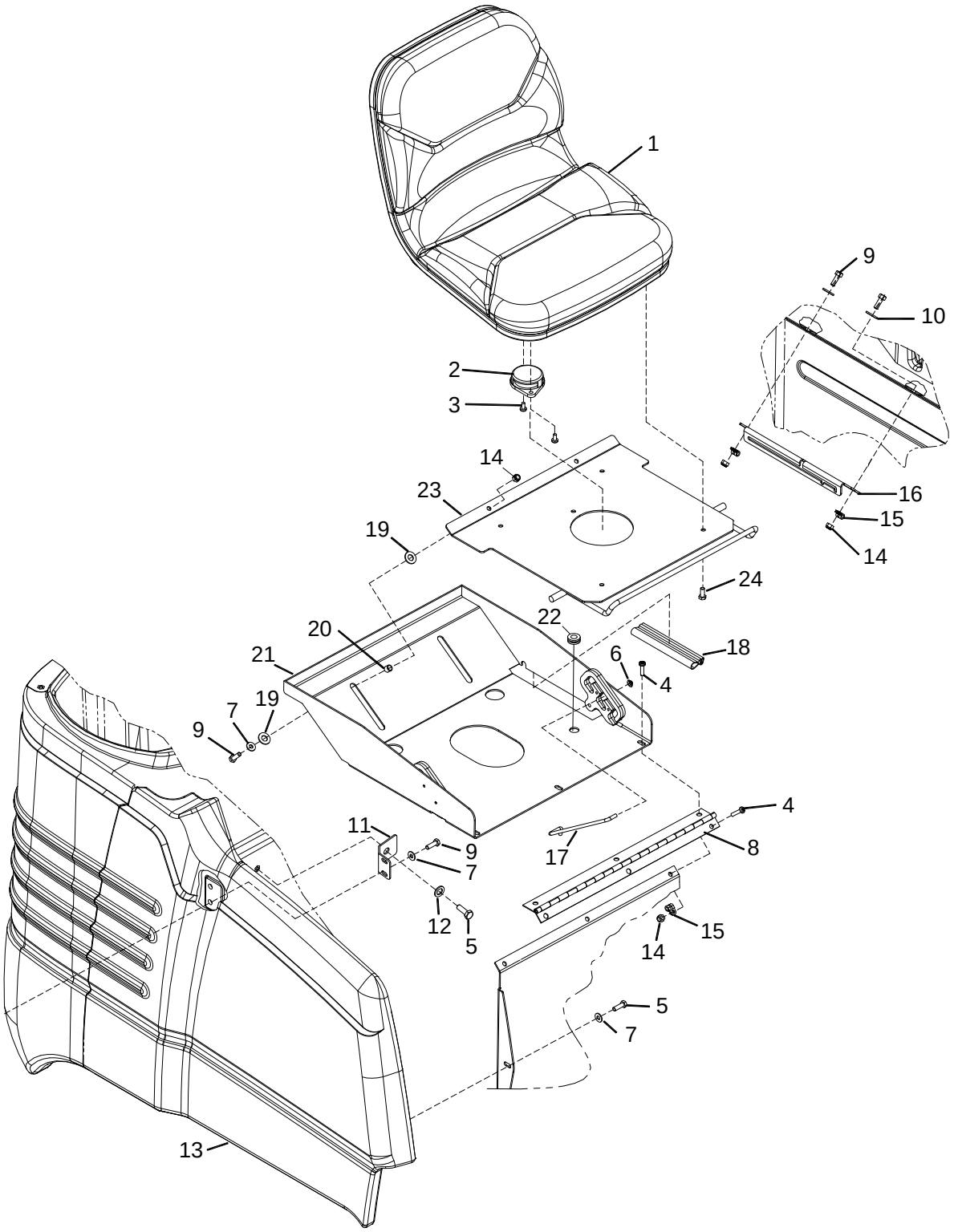
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86005250	53258	2	MOTOR ASM, 36V 330 RPM GEAR		
1A	86001890	14418	REF	BRUSH SET, MOTOR		SERVICE ONLY
2	86273810	70018	2	SCR, 1/4-20 X 1 HHCS SS		
3	86087950	730157	1	STRAP, 32 IN REAR SQUEEGEE		
4	86253950	730158	1	SKIRT, 32 IN REAR		
5	86276950	70772	10	SCR, 1/4-20 X 3/4 CARRIAGE SS		
6	86093980	730155	1	SCRUB DECK, 32 SMALL RIDER		
7	86276970	70774	8	SCR, 3/8-16 X 3/4 HHCS SS		
8	86279530	87173	2	WASHER, .765 ID X 1.31 OD X .09 T SS		
9	86004810	48040	2	KEY, 1/4 SQ X 1.00		
10	86003420	29220	2	DRIVER, BRUSH SD		
11	86010790	87163	8	WASHER, 3/8 SPLIT LOCK		
12	86007020	70673	2	SCR, 5/16-18 X 1.25 HHCS SS		
13	86279630	87212	2	WASHER, .344ID X 1.13OD X .09T		
14	86253900	730099	1	SKIRT, FRONT		
15	86271830	57283	2	NUT, 3/8 NPT PLASTIC		
16	86087930	730103	1	STRAP, FRONT SQUEEGEE		
17	86005630	57022	1	NUT, 3/8-16 HEX NYLOCK THIN SS		
18	86279130	87083	2	WASHER, 5/16 SPLIT		
19	86276920	70755	1	SCR, 3/8-16 X 1 HHCS SS NP		
20	86001550	40043	2	HOSEBARB, 3/8MPT X 3/8 90D		
21	86003580	34327	1	FITTING, 1/8" X 3/8" X 3/8" RED		
22	86009710	82312	1	VALVE, 36VDC SOL. 1/2" HOSEBARB		
-	86003460	29260	-	DIAPHRAGM SRVC PART SLND		SERVICE ONLY
-	86136820	47395	-	SOLENOID SPRING KIT		SERVICE ONLY
23	86005810	57245	10	NUT, 1/4-20 HEX NYLOCK SS		
24	86281480	39390	1	HOSE, 1/2 ID NYLOBRAID 14”		
25	86280860	39053	2	HOSE, 3/8 NYLOBRAID X 7”		
26	86282180	39613	1	HOSE, 1/2 ID NYLOBRAID X 17”		
27	86233150	20042	1	CLAMP, 3/8 HOSE (D-SLOT)		
28	86009200	81535	3	KNOB, 3/8-16 4 PRONG ALUM		
29	86279620	87200	4	WASHER, .4 ID X 1.3 0D NYLON		
30	86010770	87143	1	WASHER, 7/16 ID X 1 D X .08 FLT SS		

SCRUB DECK SIDE SQUEEGEE –32 IN

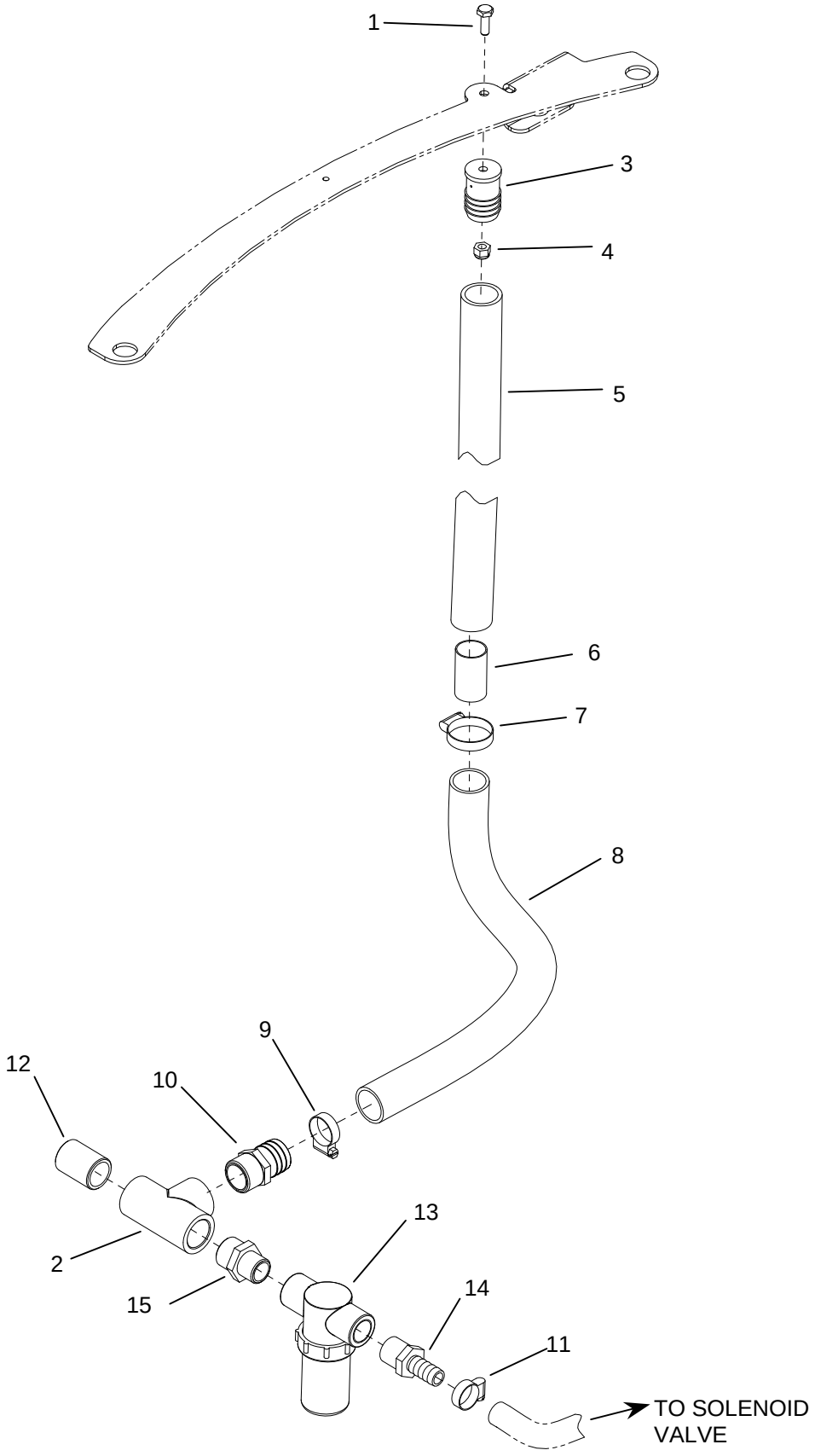


REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86094220	730106	1	SKIRT, RIGHT		
2	86086840	730156	1	SCRUB DECK 32 SIDE SQUEEGEE		
3	86226830	73268	4	SPRING, EXT .68D X 3.00L X .098W		
4	86007020	70673	6	SCR, 5/16-18 X 1.25 HHCS SS		
5	86010670	87029	10	WASHER, 5/16 FLAT SS		
6	86094230	730107	1	SKIRT, LEFT		
7	86005810	57245	13	NUT, 1/4-20 HEX NYLOCK SS		
8	86007420	730100	2	SQUEEGEE, SIDE BLADE LINATEX		
9	86276320	70633	9	SCR, 1/4-20 X1.0 CARRIAGE BZ		
10	86087920	730102	2	STRAP, SIDE SQUEEGEE		
11	86276900	70753	2	SCR, 5/16-18 X 1.25 PHFMS SS		
12	86279380	87146	16	WASHER, 1/2” ID X 1” D X .08” NYL		
13	86082170	62924	1	PLATE, LEFT DECK		
14	86272580	80638	4	PIN, CLEVIS 3/8” X 1.25” PLTD		
15	86228840	09124	8	BEARING, FLANGED .314 D X .502 OD		
16	86270830	57023	8	NUT, 5/16-18 HEX NYLOCK SS		
17	86065960	05162	4	ARM, SKIRT LINKAGE		
18	86259410	87206	10	WASHER, THRUST .51 ID X 1 OD X .063		
19	86277090	70786	2	SCR, 5/16-18 X 3 HHMS FL THD SS		
20	86242120	48090	2	KNOB, 1.0 OD X 5/16-18		
21	86272380	66217	4	PIN, CLEVIS 3/8 X 3/4		
22	86087960	730166	1	STRAP, 32 IN SIDE SQUEEGEE		
23	86007580	730167	1	SQUEEGEE, 32 SIDE BLADE		
24	86001480	140584	1	BRKT, 32 SIDE SQUEEGEE		
25	86273780	70015	2	SCR, 1/4-20 X 3/4 HHCS SS NP		
26	86276400	70642	1	SCR, 3/8-16 X 3 HHCS		
27	86010890	89059	2	WHEEL, BUMPER		
28	86005630	57022	1	NUT, 3/8-16 HEX NYLOCK THIN SS		
29	86253960	730169	1	SKIRT, 32 IN SIDE DECK		
30	86087970	730168	1	STRAP, 32 IN SIDE DECK		
31	86211070	70772	2	SCR, 1/4-20 X 3/4 CARRIAGE SS		
32	86005650	57031	2	NUT, 5/16-18 HEX		
33	86226810	73245	2	SPRING, COMP .72D X 2.0L X .067W		

SEAT & SIDE COVER



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86253150	730087	1	SEAT, SUPER SUBURBAN BLK VINYL		
2	86257070	72175	1	SWITCH, SEAT		
3	86006580	70085	2	SCR, 1/4-20 X 1/2 PPHMS SS		
4	86276890	70752	6	SCR, 5/16-18 X 3/4 PTHMS SS		
5	86276780	70728	2	SCR, 5/16-18 X 3/4 HHCS SS		
6	86271240	57154	1	NUT, CAP 1/4 DIA RETAINING PLT		
7	86010670	87029	7	WASHER, 5/16 FLAT SS		
8	86239640	41430	1	HINGE, SMALL RIDER		
9	86006560	70083	6	SCR, 5/16-18 X 1 HHCS SS		
10	86279650	87222	2	WASHER, SEAL 5/16 X 3/4 OD		
11	86069700	140494	1	BRKT, SIDE COVER		
12	86279630	87212	1	WASHER, .344ID X 1.13OD X .09T PLT		
13	86288410	27937	1	COVER, SIDE SMALL RIDER		
14	86270830	57023	7	NUT, 5/16-18 HEX NYLOCK SS		
15	86233440	82857	3	CLAMP, 1/4 CUSHIONED		
16	86069710	140496	1	BRKT, PROP ROD		
17	86086550	67477	1	ROD, PROP		
18	86282780	32053	1	EDGING, SEAT DECK		
19	86279380	87146	4	WASHER, 1/2” ID X 1” D X .08” NYL		
20	86008460	80102	2	SPACER, .500 OD X .91 ID X .400		
21	86093760	62960	1	PLATE, SEAT SLIDE		
22	86238470	80690	1	GROMMET, INSULATION 1/2”		
23	86093750	62959	1	PLATE, ROD ASM		
24	86277040	70781	4	SCR, 5/16-18 X 1/2 HHCS SS NP		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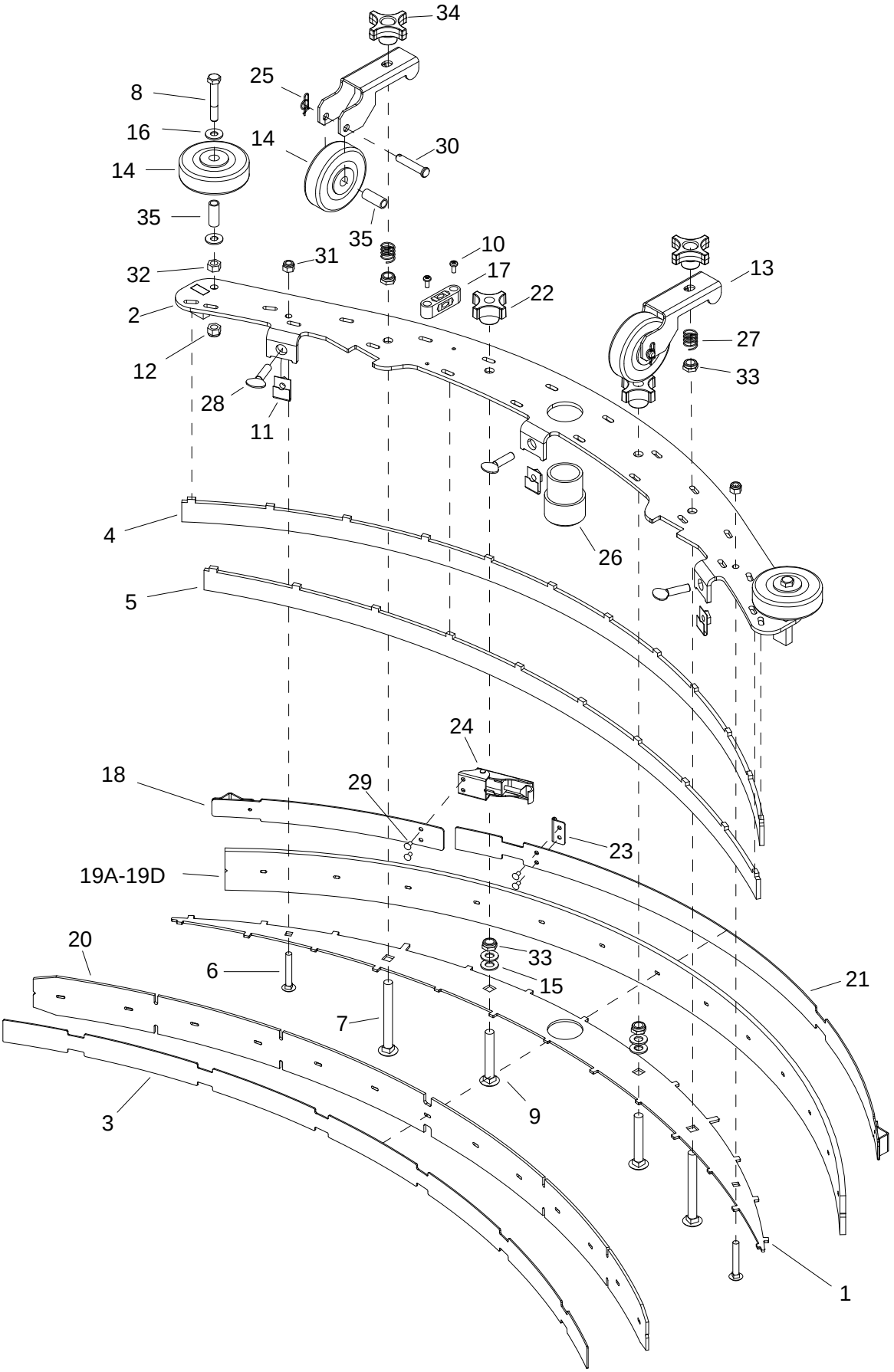
TO SOLENOID VALVE

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86273780	70015	1	SCR, 1/4-20 X 3/4 HHCS SS NP		
2	86198050	81923	1	TEE, 3/4 FPT		
3	86076820	40053	1	HOSEBARB, SOLUTION HOSE MTG		
4	86005810	57245	1	NUT, 1/4-20 HEX NYLOCK SS		
5	86282150	39596	1	HOSE, 1” X 28 VINYL		
6	86236180	34387	1	FITTING, 3/4” COUPLING		
7	86233300	20101	1	CLAMP, 1.25” WORM GEAR SS		
8	86240150	39595	1	HOSE, 1 X 12” DRAIN		
9	86233110	20018	1	CLAMP, 1.0” WORM GEAR		
10	86240330	40051	1	HOSEBARB, 3/4 MPT X 1”H PVC DL		
11	86233150	20042	1	CLAMP, 3/8 HOSE (D-SLOT)		
12	86247760	80960	1	NIPPLE, 3/4 CLOSE		
13	86256040	730151	1	STRAINER, 1/2 FPT 40 MESH		
13A	86007250	730000	REF	STRAINER, DEEP 40 MESH		SERVICE ONLY
13B	86005870	59021	REF	O-RING, FILTER SEAL		SERVICE ONLY
14	86197910	40022	1	HOSEBARB, 1/2 MPT X 1/2 POLY		
15	86236860	82362	1	FITTING, 3/4 MPT X 1/2 MPT REDUCER		

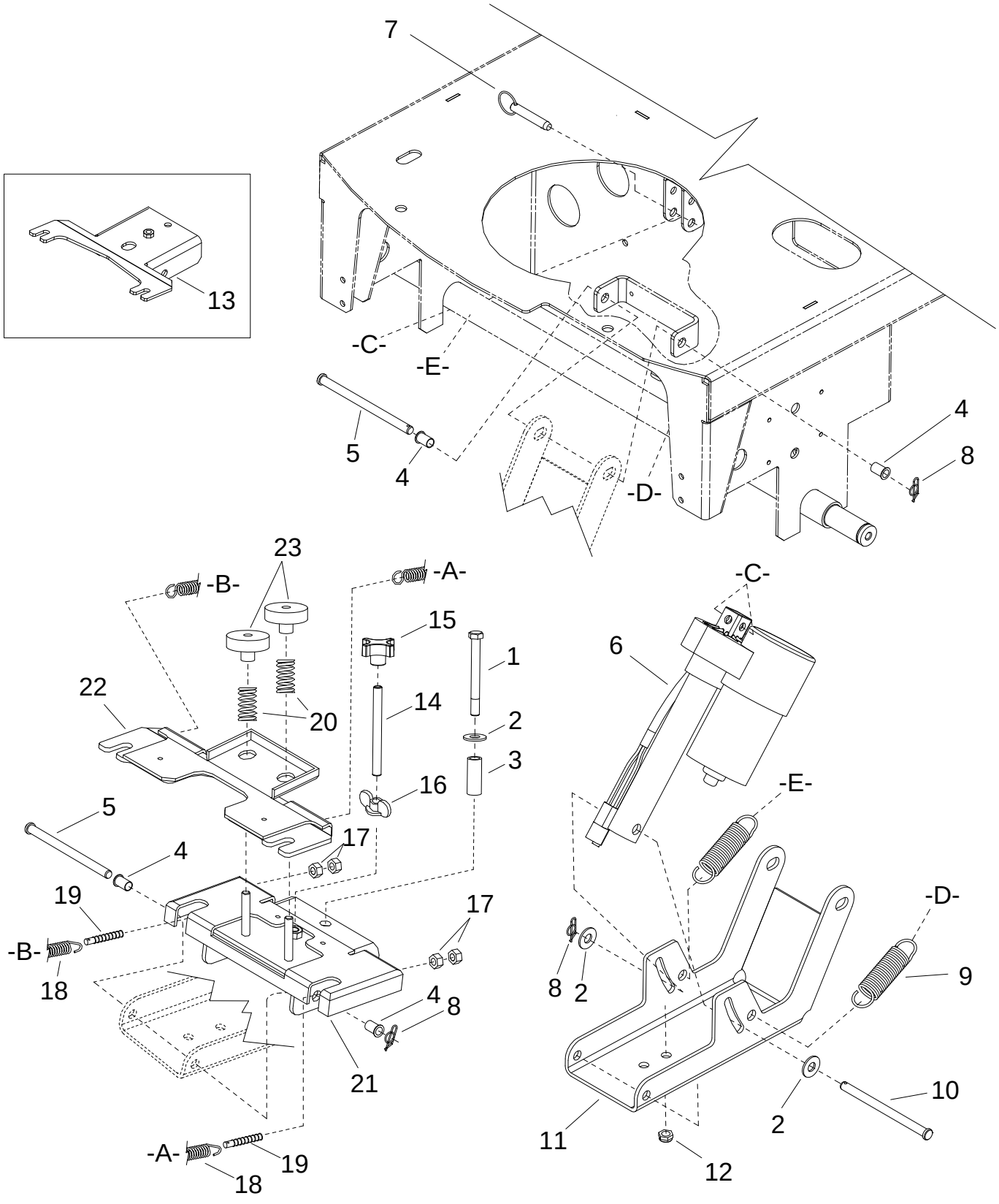
SQUEEGEE- 32 IN



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86351700	-	1	PLATE, SQUEEGEE BOTTOM		
2	86351680	-	1	PLATE ASM, SQUEEGEE TOP 37"		
3	86351630	-	1	BAND, FRONT SQUEEGEE		
4	86351560	-	1	PLATE, SQU. VERT. FILL. 32" R		
5	86351550	-	1	PLATE, SQG. VERT. FILL. 32" F		
6	86277000	70777	2	SCR, 1/4-20 X 1.75 CARRIAGE SS		
7	86276990	70776	2	SCR, 3/8-16 X 3.50 CARRIAGE SS		
8	86276980	70775	2	SCR, 5/16-18 X 2.00 HHCS SS		
9	86276870	70748	2	SCR, 3/8-16 X 2.50 CARRIAGE SS		
10	86274130	70098	2	SCR, 8-32 X 3/8 PHTC 'F' PLTD		
11	86271820	57270	3	NUT, 5/16-18 CAPTIVE "J" PLTD		
12	86270830	57023	2	NUT, 5/16-18 HEX NYLOCK SS		
13	86069870	140531	2	BRKT, SQG WHEEL		
14	86011020	89202	4	WHEEL, 3" DIA. CUSHION RUBBER		
15	86010680	87030	4	WASHER, 3/8 X 3/4 NYL		
16	86010670	87029	4	WASHER, 5/16 X 3/4 SS		
17	86009910	82576	1	VIAL, LEVEL		
18	86009890	82553	1	WELDMENT, REAR SQG BAND SHORT		
19A	86009840	82529	1	SQUEEGEE, REAR BLADE LINATEX		
19B	86009960	82638	REF	SQUEEGEE, REAR BLADE (TILE)		OPTION
19C	86009980	82641	REF	SQUEEGEE, REAR BLADE (BUTTONS)		OPTION
19D	86255700	730061	REF	SQGE BLADE, REAR URETHANE 37"		OPTION
20	86009830	82528	1	SQUEEGEE, FRONT BLADE LINATEX		
21	86009820	82527	1	WELDMENT, REAR SQUEEGEE BAND		
22	86009200	81535	2	KNOB, 3/8-16 4 PRONG		
23	86009180	81489	1	STRIKER, SQUEEGEE STRAP REAR		
24	86009170	81488	1	LATCH, SQUEEGEE STRAP		
25	86008660	80605	2	COTTER, 5/16 RING		
26	86008390	78493	1	TUBE, SQUEEGEE VAC		
27	86007780	73576	2	SPRING, COMP .60D X2.0 X.045		
28	86007040	70680	3	SCR, 5/16-18X1 THUMB SS TYPE P		
29	86006400	67380	4	RIVET, 5/32 OD X 1/8 GRIP		
30	86006270	66276	2	PIN, CLEVIS		
31	86005810	57245	2	NUT, 1/4-20 HEX NYLOCK SS		
32	86005650	57031	2	NUT, 5/16-18 HEX		
33	86005630	57022	4	NUT, 3/8-16 HEX NYLOCK THIN SS		
34	86004890	48095	2	KNOB,4 PRONG ALUM 3/8-16 NUT		
35	86001350	140390	4	BUSHING, SPANNER .435 X 1.10		

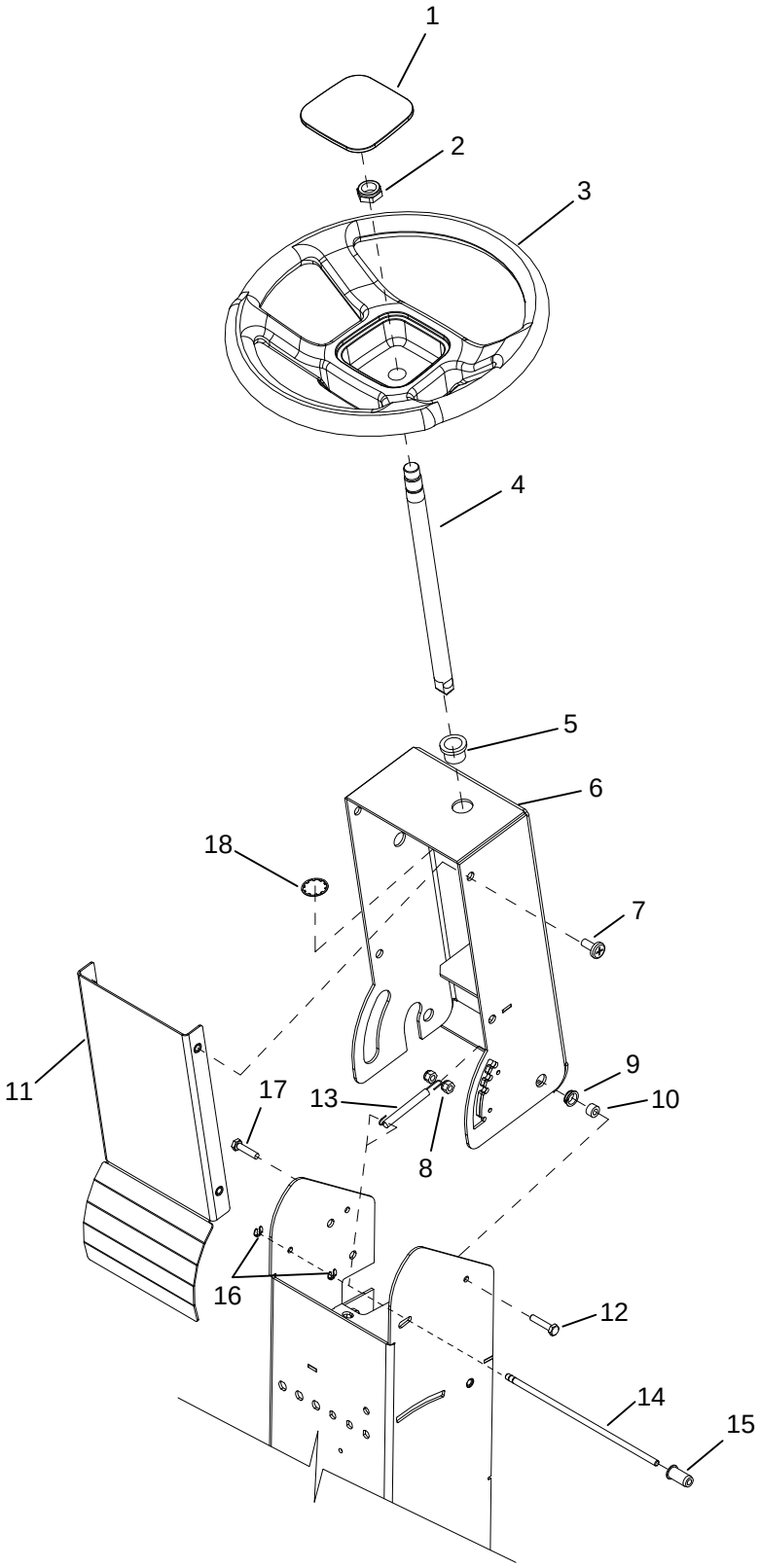
NOTE: COMPLETE SQUEEGEE ASSEMBLY IS AVAILABLE, PART NO. 86028560.

SQUEEGEE LIFT



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86277860	70787	1	SCR, 3/8-16 X 3.75 HHCS SS		
2	86010770	87143	3	WASHER, 7/16ID X 1D X .08 FLT SS		
3	86010160	82830	1	SPRING, .62 X .09 X 1.6 CS ZC GRND		
4	86008870	80815	4	BEARING, FLANGED 3/8" ID 11/16"		
5	86029480	80808	2	PIN, CLEVIS 3/8" X 5.5"L PLTD		
6	86000810	05167	1	ACTUATOR, 36VDC 2-0 STK		
7	86248910	66369	1	PIN, QUICK RELEASE 0.38 X 1.5		
8	86008670	80606	3	COTTER, 3/8" RING		
9	86255310	73979	2	SPRING, EXT. 1.00OD X 4.0L		
10	86272710	82060	1	PIN, CLEVIS 3/8 X 5.25 PLTD		
11	86091710	140473	1	BRACKET, SQUEEGEE LIFT		
12	86005630	57022	1	NUT, 3/8-16 HEX NYLOCK THIN SS		
13	86009860	82541	1	WELDMENT, SQUEEGEE MOUNT		
14	86088270	730121	1	STUD, 3/8-24 X 4.0 SS		
15	86010050	82696	1	KNOB, 3/8-24 INSERT		
16	86271980	57303	1	NUT, 3/8-24 WING, SS	*(5)	
17	86270720	01-000282	4	NUT, 5/16-18 HXHD SS	*(5)	
18	86008110	73938	2	SPRING, EXT .5D X 2.75L X .075W	*(5)	
19	86235700	32057	2	EYEBOLT, SQUEEGEE MNT SPRING	*(5)	
20	86255510	81993	2	SPRING, COMP .97D X 1.5L X .125W	*(5)	
21	86093600	620057	1	PLATE ASM, SQUEEGEE PITCH	*(5)	
22	86079020	620056	1	PLATE ASM, SQUEEGEE MOUNT	*(5)	
23	86077100	48111	2	KNOB, 1.5 OD X 5/16-18	*(5)	

*SEE SERIAL NUMBER PAGE.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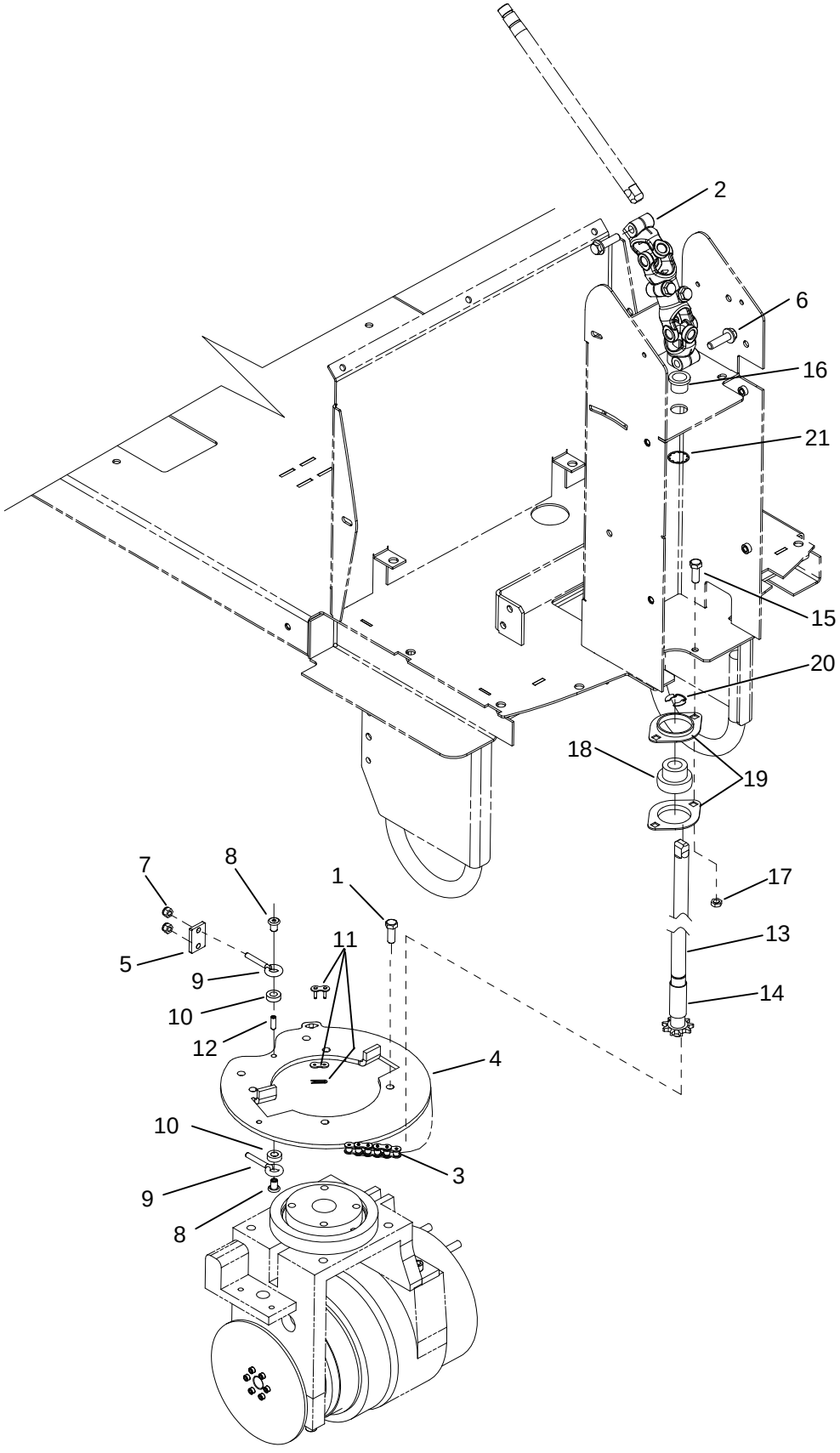
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86234810	27945	1	COVER, STEERING WHEEL		
2	86271610	57228	1	NUT, 5/8-18 HEX NYLOCK THIN		
3	86259610	730117	1	WHEEL, STEERING 40 SPLINE HUB		
4	86253230	730085	1	SHAFT, UPPER STEERING		
5	86228790	09111	2	BEARING, FLANGE .88OD X .75ID X .75		
6	86092190	730118	1	COLUMN, UPPER STEERING		.
7	86276890	70752	4	SCR, 5/16-8 X 3/4 PTHMS SS		
8	86005810	57245	3	NUT, 1/4-20 HEX NYLOCK SS		
9	86228580	09025	2	BEARING, 1/2 ID CYLINDER		
10	86231260	140486	2	BUSHING, .50D X .26 X .3L SS		
11	86075360	23697	1	COVER, STEERING COLUMN		
12	86273820	70019	1	SCR, 1/4-20 X 1.25 HHCS		
13	86255560	82855	1	SPRING, .31 X .04 X .3.0		
14	86252060	67475	1	ROD, STEERING LOCK		
15	86005620	57021	1	NUT, 1/4-20 X .962 WELL		
16	86006410	67381	2	RING, 1/4 CLIP		
17	86273810	70018	1	SCR, 1/4-20 X 1 HHCS SS		
18	86005610	57016	2	NUT, 7/8 DIA PUSHLOCK		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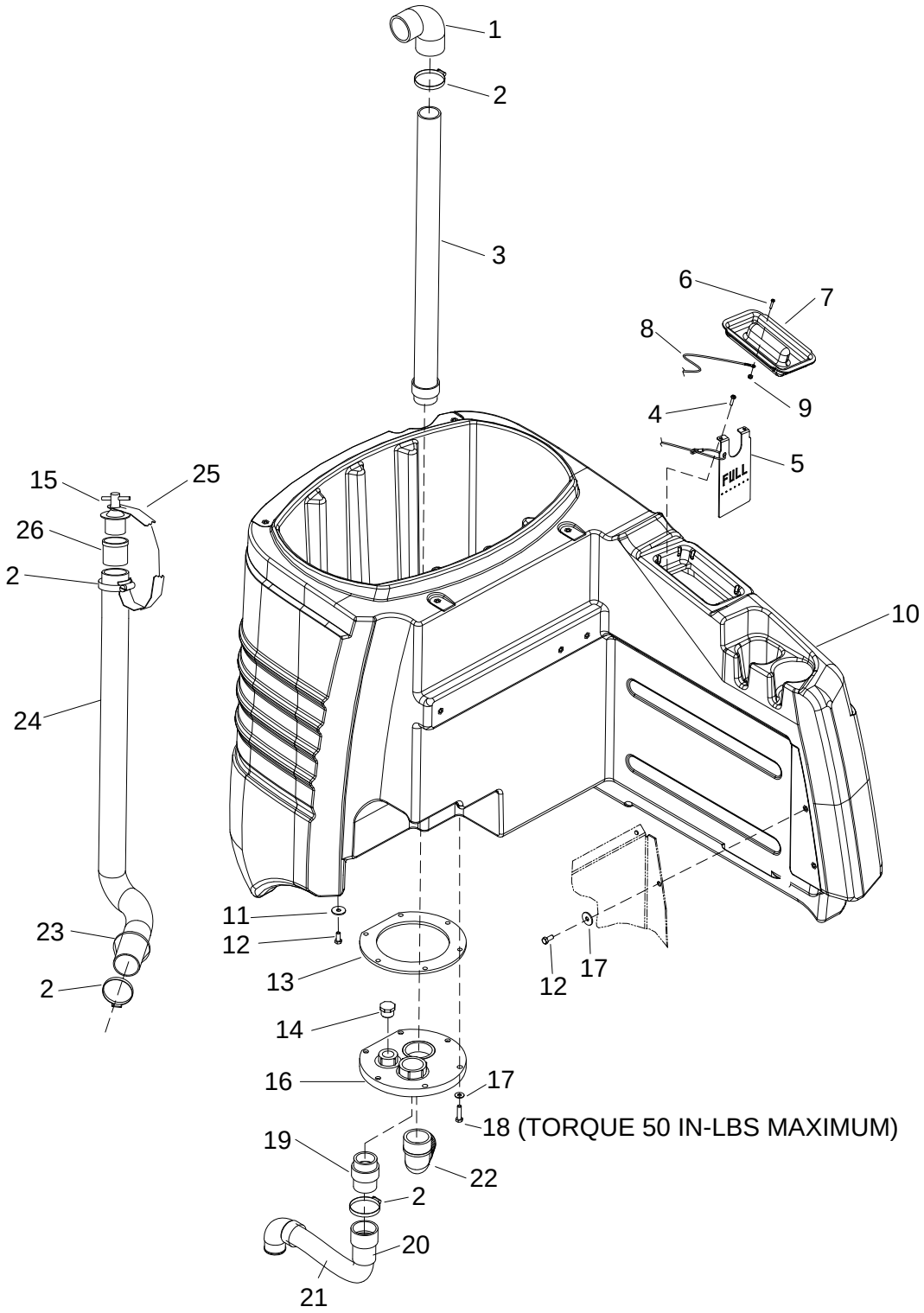
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86276970	70774	4	SCR, 3/8-16 X 3/4 HHCS SS NP		
2	86258330	45011	1	UNIVERSAL JOINT, DOUBLE		
3	86232800	27946	1	CHAIN, #40-1/2 PITCH X 36		
4	86082310	62951	1	PLATE, STEERING		
5	86082840	66362	1	PLATE, CHAIN TENSIONER		
6	86288410	70762	4	SCR, M10-1.5 X 35MM HHFS		
7	86005810	57245	2	NUT, 1/4-20 HEX NYLOCK SS		
8	86005860	57273	2	NUT, 1/4-20 X 12MM HEX BARREL		
9	86270310	70760	2	EYEBOLT, 1/4-20 X 1.5 PLTD		
10	86264490	73440	2	SPACER, .75OD X .39ID X .25 HDPE		
11	86002850	27343	2	CHAIN, #40-1/2”P MASTER LINK		
12	86278070	70761	1	SET SCREW, 1/4-20 X 3/4 SS		
13	86094330	730116	1	STEERING ASM, LOWER SHAFT		
14	86087260	730132	1	SPACER, 7/8 OD X .049W X 1.75L		
15	86276780	70728	2	SCR, 5/16-18 X 3/4 HHCS SS		
16	86228790	09111	1	BEARING, FLANGE .88OD X .75ID X.75		
17	86270830	57023	2	NUT, 5/16-18 HEX NYLOCK SS		
18	86001030	09148	1	BEARING, BALL 3/4 BORE SPHERED		
19	86008610	80595	2	FLANGE, BEARING PRESS STEEL		
20	86272900	67416	1	RING, 3/4” CLIP		
21	86005610	57016	1	NUT, 7/8 DIA PUSHLOCK		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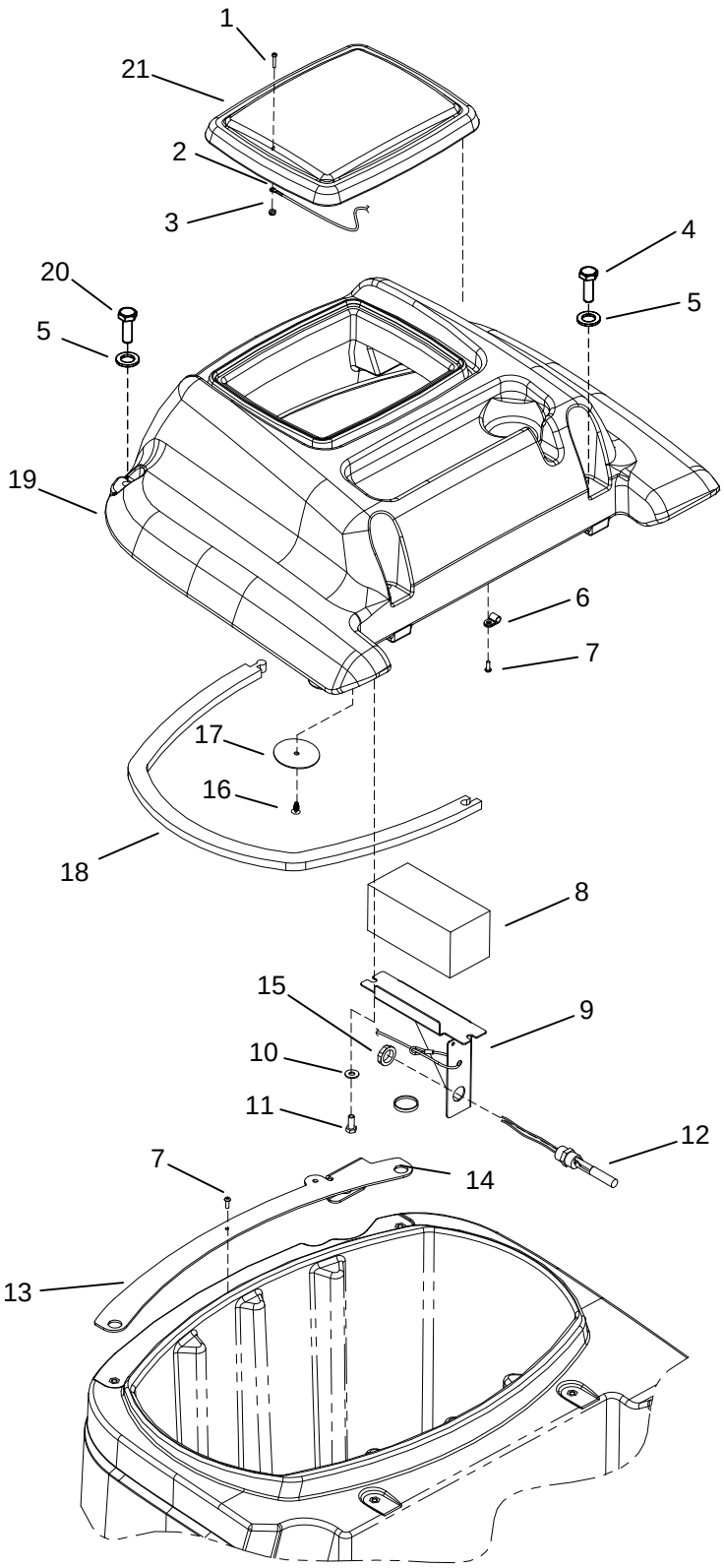
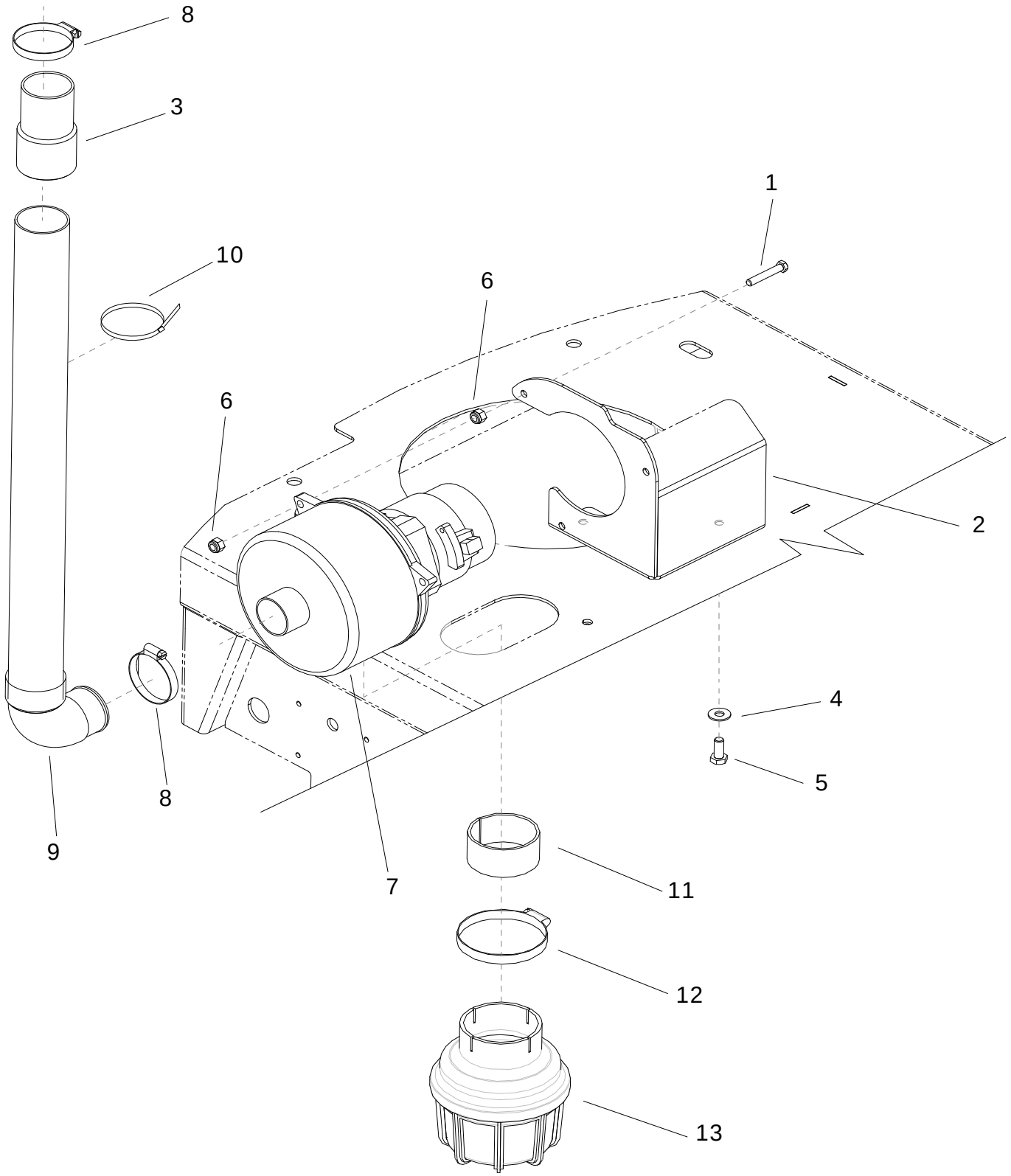
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86235580	81220	1	ELBOW, 90° RUBBER		
2	86233430	81431	4	CLAMP, 2.50 WORM GEAR		
3	86033270	78482	1	TUBE ASM, SQUEEGEE VAC		
4	86276600	70696	2	SCR, #10 X 3/4 PTHSMS SS		
5	86066310	140535	1	BAFFLE, SMALL RIDER		
6	86273950	70056	1	SCR, 6-32 X 1/2 PPHMS		
7	86234790	27827	1	COVER, CLP SOLUTION		
8	86246080	51368	1	LANYARD, 18.0 W/ LOOP & EYE		
9	86270920	57049	1	NUT, 6-32 HEX NYLOCK SS		
10	86032570	75374	1	TANK, SMALL RIDER		
11	86279630	87212	2	WASHER, .344ID X 1.13OD X .09T PLTD		
12	86276780	70728	4	SCR, 5/16-18 X 3/4 HHCS SS		
13	86237790	35260	1	GASKET, TANK PLATE		
14	86006260	66240	1	PLUG, 3/4” MPT PVC		
15	86006340	66347	1	PLUG, 1-3/4 DRAIN HOSE		
16	86033140	62930	1	PLATE ASM, TANK FITTING		
17	86010670	87029	8	WASHER, 5/16 FLAT SS		
18	86007020	70673	6	SCR, 5/16-18 X 1.25 HHCS SS		
19	86033290	78500	1	TUBE ASM, SQUEEGEE		
20	86122360	27508	1	CUFF, VAC HOSE BLACK		
21	86004420	39609	1	HOSE ASM, 1.5 BLK VAC X 14		
22	86240450	40085	1	HOSEBARB, 90° 2 NPT X 2		
23	86002830	27196	1	CABLE TIE, .375 X 24.7		
24	86004410	39594	1	HOSE, 2 X 33.5” DRAIN		
25	86008400	78499	1	TETHER, 2 IN DRAIN PLUG		
26	86076830	40086	1	HOSEBARB, 2.0		

TANK COVER

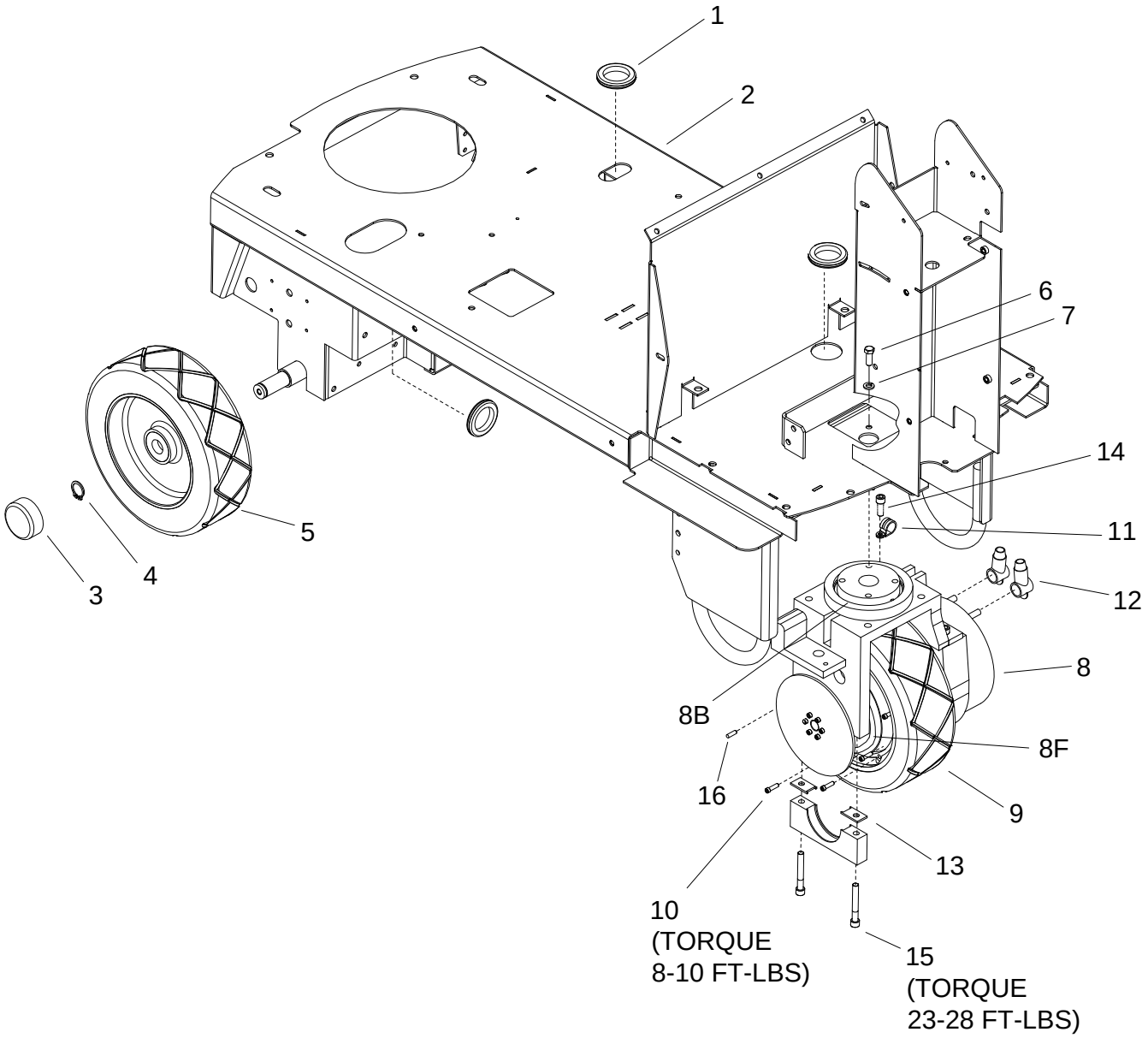


REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86202540	70056	1	SCR, 6-32 X 1/2 PPHMS		
2	86246080	51368	1	LANYARD, 18.0 W/ LOOP & EYE		
3	86270920	57049	1	NUT, 6-32 HEX NYLOCK SS		
4	86276910	70754	2	SCR, 5/16-18 X 3 HHCS SS NP		
5	86279630	87212	4	WASHER, .344ID X 1.13OD X .09T PLTD		
6	86198450	20005	4	CLAMP, 5/16 NYLON		
7	86006500	70024	5	SCR, #8 X 1/2 SHT METAL SS		
8	86003690	34390	1	FILTER, VAC		
9	86069740	140505	1	BRACKET, RECOVERY FILTER		
10	86010670	87029	2	WASHER, 5/16 FLAT SS		
11	86277040	70781	2	SCR, 5/16-18 X 1/2 HHCS SS		
12	86007460	730122	1	SWITCH ASM, FLOAT		
13	86082360	62956	1	PLATE, HOSE MOUNT		
14	86264930	27050	1	CABLE TIE, 3.5” UL/CSA		
15	86271850	57287	1	NUT, 1/2 NPT PLASTIC		
16	86233560	80805	1	CLIP, TREE .19 HOLE FLAT HEAD		
17	86258670	81473	1	VALVE, DISK DRAIN		
18	86238010	36217	2	GASKET, 1/2T X 1.0W X 36.88L		
19	86031830	27935	1	COVER, TANK SMALL RIDER		
20	86276790	70732	2	SCR, 5/16-18 X 1.75 HHCS SS		
21	86003340	28062	1	DOME, 13 X 11		

VACUUM GROUP



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86274800	70297	3	SCR, 1/4-20 X 1.5 HHMS		
2	86069560	140476	1	BRACKET, VACUUM MOUNTING		
3	86003010	27759	1	CUFF, HOSE 1.5” BLK A2161		
4	86279130	87083	2	WASHER, 5/16 SPLIT LOCK PLTD		
5	86276780	70728	2	SCR, 5/16-18 X 3/4 HHCS SS		
6	86005810	57245	6	NUT, 1/4-20 HEX NYLOCK SS		
7	86005450	53799	1	VAC MOTOR ASM, 36VDC 3 STAGE		
-	86230800	140550	1	BRUSH SET, VAC MOTOR AMETEK		SERVICE ONLY
-	86135310	140686	1	BRUSH SET, VAC 24V/36V WINDSOR		SERVICE ONLY
8	86233140	20041	2	CLAMP, 2.0” WORM GEAR		
9	86240170	39614	1	HOSE ASM, 1.5 BLK VAC X 19		
10	86264920	27049	3	CABLE TIE, 7” UL/CSA		
11	86091170	730174	1	TUBE, 2.0 OD X .05 W X 1.0 L		
12	86233430	81431	1	CLAMP, 2.50 WORM GEAR		
13	86064910	54194	1	MUFFLER, VAC MOTOR		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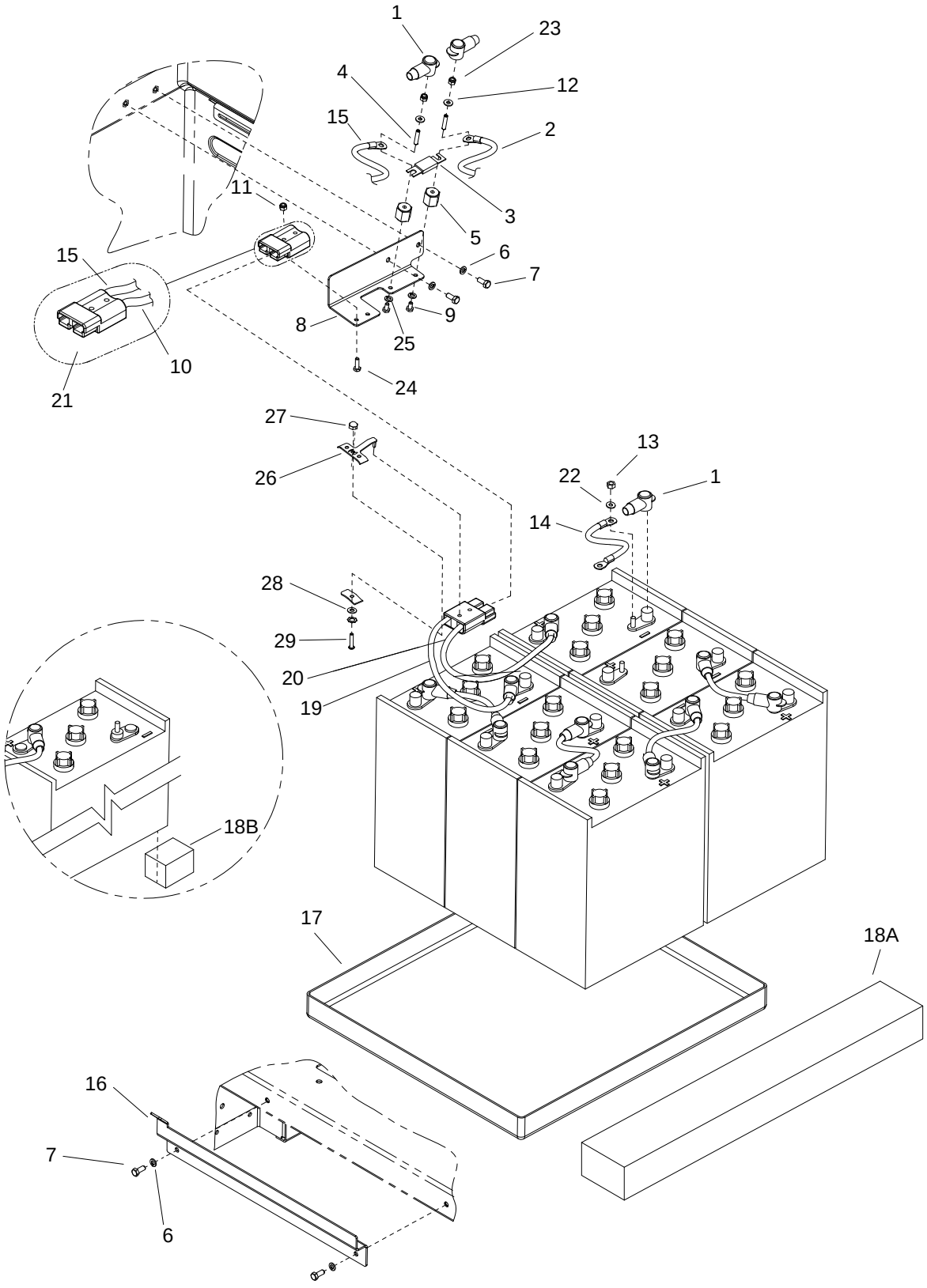
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86238500	81427	3	GROMMET, 1.703ID X 2.5OD X .125 GRY		
2	86092430	34385	1	FRAME, RIDER SCRUBBER		
3	86232130	17309	2	CAP, 2.75 ID X 1.0 L BLK VINYL		
4	86272910	67471	2	RING, 63/64 EXTERNAL SNAP		
5A	86011090	89224	2	WHEEL ASM, 12 X 3.5 X 8 SCRUBBER COMPOUND		
5B	86259890	89230	REF	WHEEL ASM, 12 X 3.5 X 8 GRAY		OPTION
6	86276920	70755	4	SCR, 3/8-16 X 1 HHCS SS NP		
7	86010790	87163	4	WASHER, 3/8 SPLIT LOCK		
8	86003450	29256	1	MOTOR ASM, 36V DRV. WHEEL		
8A	86001460	140552	REF	BRUSH SET, MOTOR		SERVICE ONLY
8B	86215180	09142	REF	BEARING, STEERING		SERVICE ONLY
8C	86004760	47417	REF	KIT, ARMATURE ASM FOR 29256		SERVICE ONLY
8D	86222190	54188	REF	MOTOR & GEARBOX FOR 29256		SERVICE ONLY
8E	86217990	34403	REF	FRAME, STEERING MOUNT ASM (29256)		SERVICE ONLY
8F	86215190	09143	REF	BEARING, 60ID X 95OD		SERVICE ONLY
9	86259880	89225	1	WHEEL, 12 X 4 X 8 SCRUB COMPOUND		
9A	86259900	89253	REF	WHEEL, 12 X 4 X 8 GRAY		OPTION
10	86277250	70818	8	SCR, M6 X 25MM HSNCS NP		
11	86233410	81270	1	CLAMP, 3/4 DIA. CUSHION .406 DIA.		
12	86008920	80889	2	BOOT, RUBBER TERM. ISOLATER		
13	86087380	730419	2	SPACER, CLAMP	*(6)	
14	86274120	70096	4	SCR 3/8-16 X 1.0 SHCS BLK		
15	86173150	70946	2	SCR, 3/8-16 X 2.5 SHCS BLK		
16	86317210	-	2	DOWEL, M8 X 25MM	**	

*SEE SERIAL NUMBER PAGE.
** CALL MANUFACTURER FOR SERIAL NUMBER.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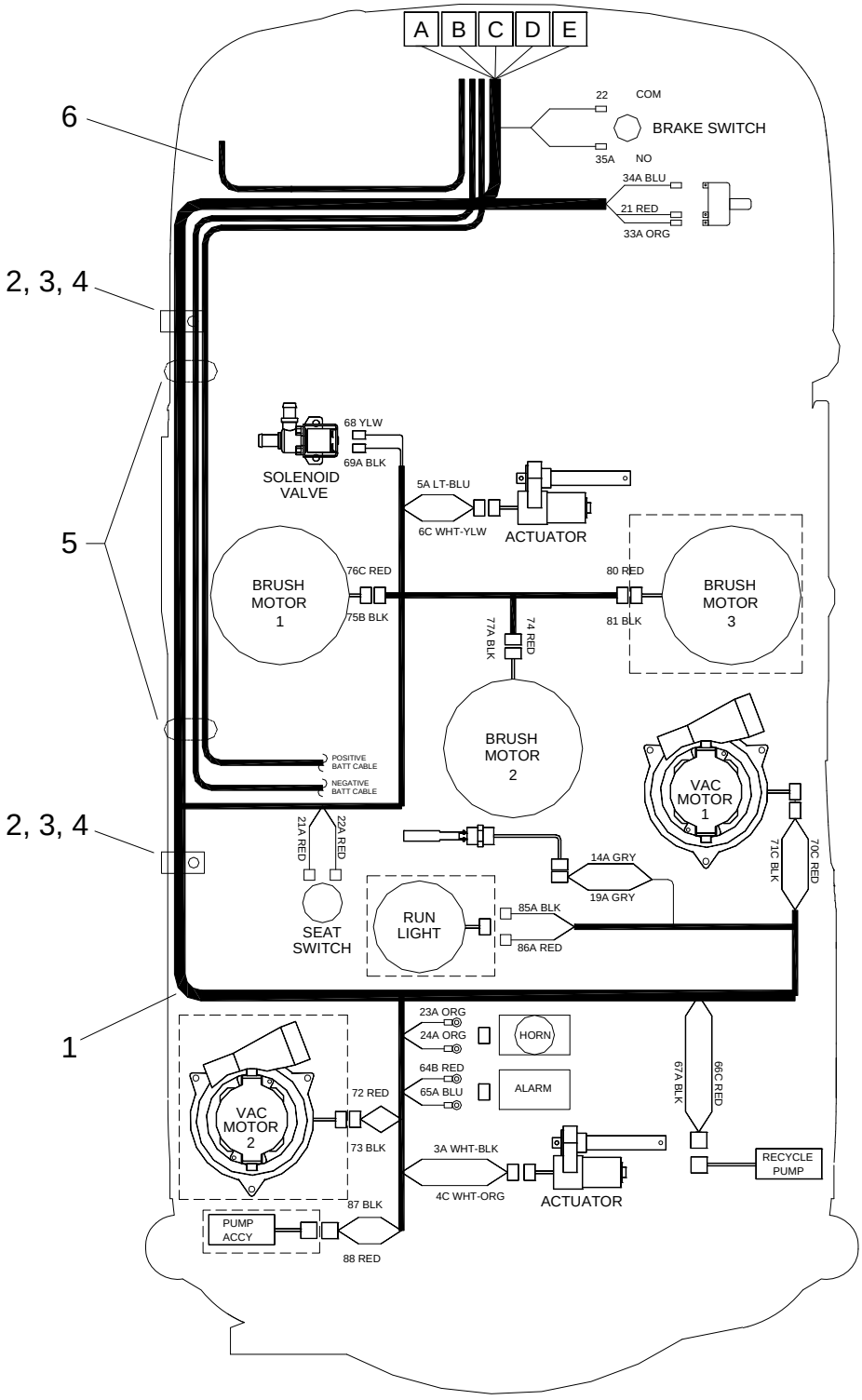
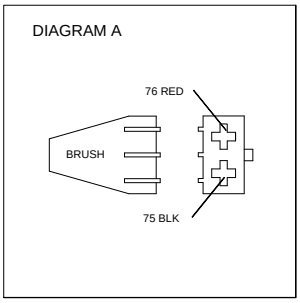
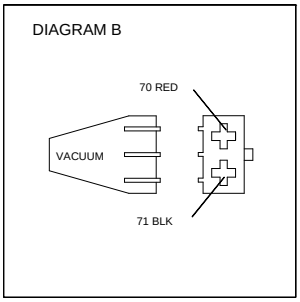
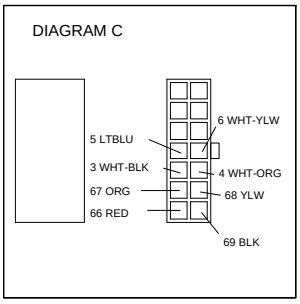
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86008920	80889	14	BOOT, RUBBER TERM. ISOLATOR		
2	86232040	830957	1	CABLE, 4GA BLACK X 78.5”		
3	86008790	80687	1	FUSE,125 AMP		
4	86203340	70393	2	SET SCR, 1/4-20 X 1.25L		
5	86255910	73659	2	STANDOFF, 1/4-20 X 1.0 HEX INS		
6	86279130	87083	4	WASHER, 5/16 SPLIT LOCK PLTD		
7	86276780	70728	4	SCR, 5/16-18 X 3/4 HHCS SS		
8	86070310	140612	1	BRACKET, BATTERY CONNECTOR		
9	86273830	70020	2	SCR, 1/4-20 X 1/2 HHCS SS		
10	86260310	82687	1	WIRE, 4 X 77BK C. TERM X 5/16 RING		
11	86005810	57245	2	NUT, 1/4-20 HEX NYLOCK SS		
12	86010630	87013	2	WASHER, 1/4ID X 5/8OD SS		
13	86271910	57295	12	NUT, 5/16-18 FLEXLOCK		
14	86009000	81131	5	WIRE, 4 X 9.5BK 5/16 RING X 5/16 RING		
15	86260510	880377	1	WIRE, 4 X 6 BK C.TERM X 5/16 RING		
16	86069690	140493	1	BRACKET, BATTERY		
17	86064710	82028	1	TRAY, BATTERY 24-1 X 21.5 X 2.2		
18A	86229750	140418	2	BLOCK, 3 X 2 21 FOAM		
18B	86312710	-	2	BLOCK, 3.5 X 4 X 5		
19	86010860	880353	1	WIRE, 4 X 20 BK C.TERM X 5/16 RING		
20	86010850	880352	1	WIRE, 4 X 27 RD C.TERM X 5/16 RING		
21	86008760	80682	2	CONNECTOR, BATTERY GRY 175 AMP		
22	86010670	87029	12	WASHER, 5/16 FLAT SS		
23	86005710	57105	2	NUT, 1/4-20 HEX W/ STAR WASHER		
24	86274800	70297	2	SCR, 1/4-20 X 1.5 HHMS		
25	86010780	87162	2	WASHER, 1/4 SPLIT LOCK		
26	86233360	28038	1	CLAMP, CABLE KIT SY945		
27	86270890	57034	1	NUT, ACORN 10-32		
28	86010650	87018	1	WASHER, #10 X 9/16 OD		
29	86273980	70066	1	SCREW, 10-32 X ¾ PPHMS SS		FOR 86312720 BATTERIES

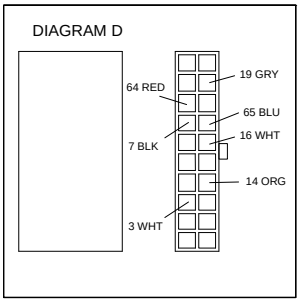
WIRING GROUP-MAIN HARNESS

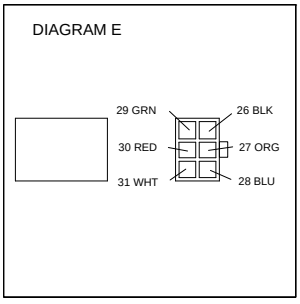








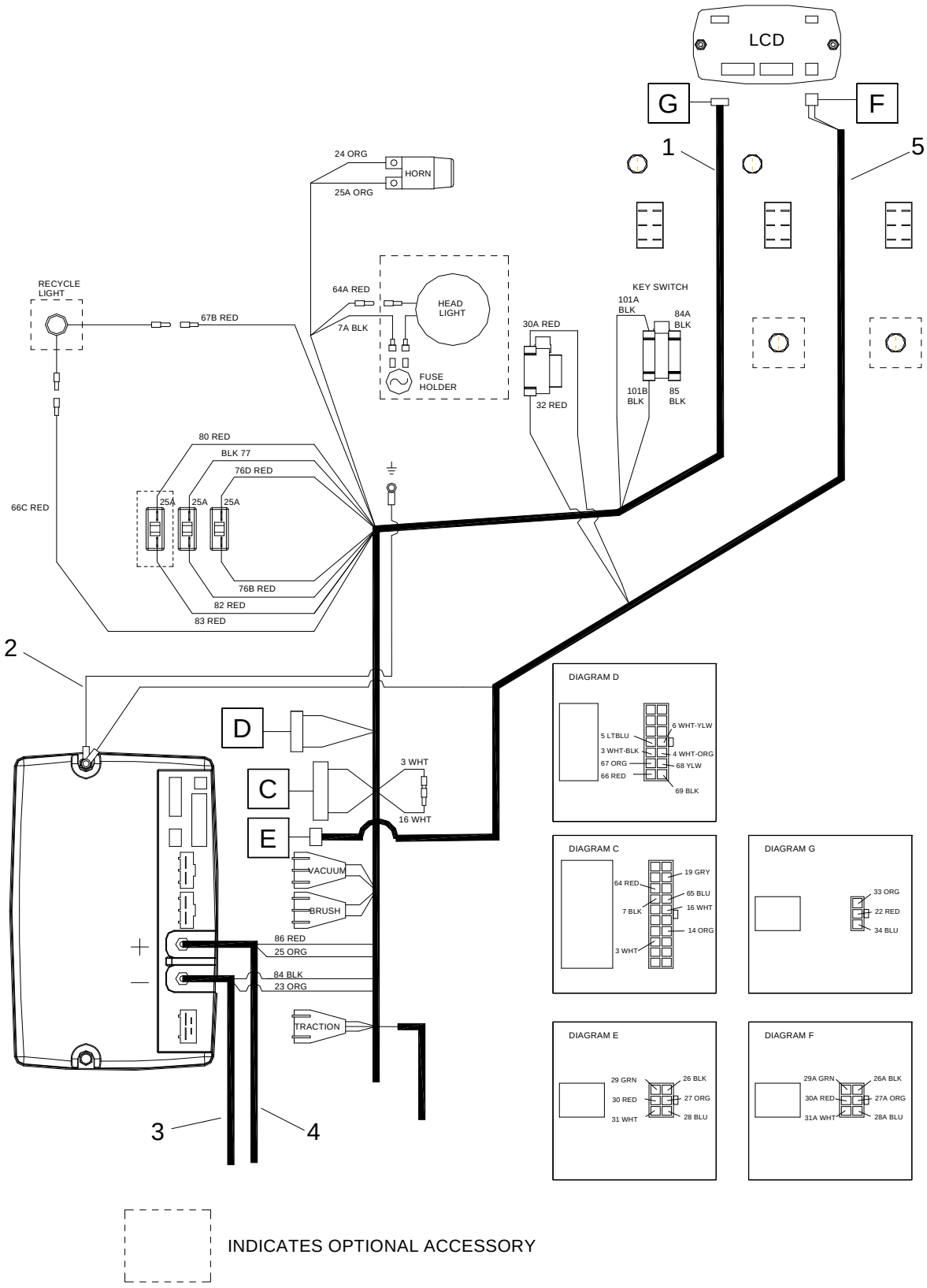




INDICATES OPTIONAL ACCESSORY

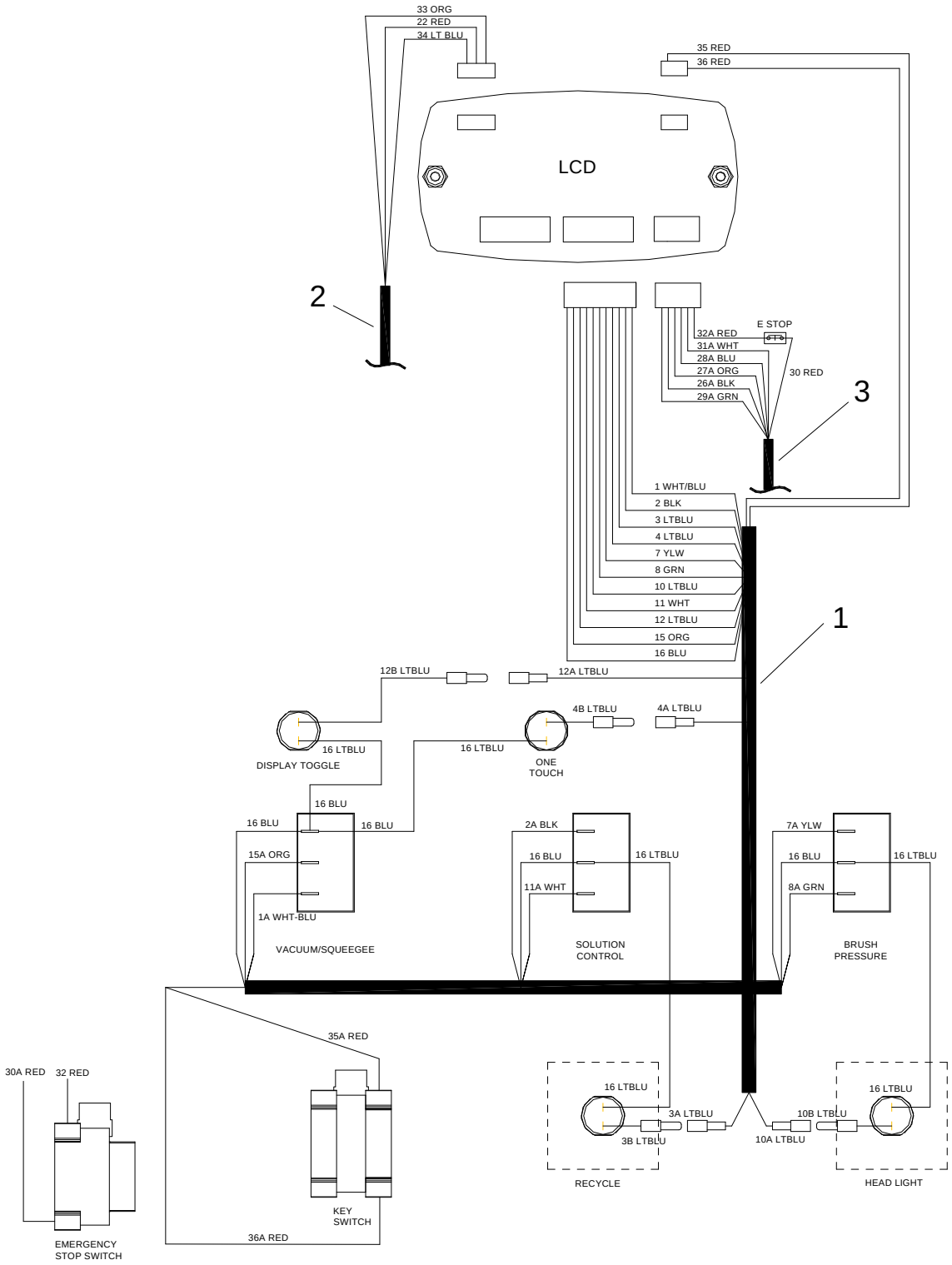
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86239500	880421	1	HARNESS, SRS UPPER		
2	86233390	80887	2	CLAMP, 7/8 DIA “P” CUSHIONED		
3	86273780	70015	2	SCR, 1/4-20 X 3/4 HHCS SS		
4	86005810	57245	2	NUT, 1/4-20 HEX NYLOCK SS		
5	86264920	27049	2	CABLE TIE, 7” UL/CSA		
6	86239510	880422	REF	HARNESS LCD		

WIRING GROUP - MAIN HARNESS CONNECTION



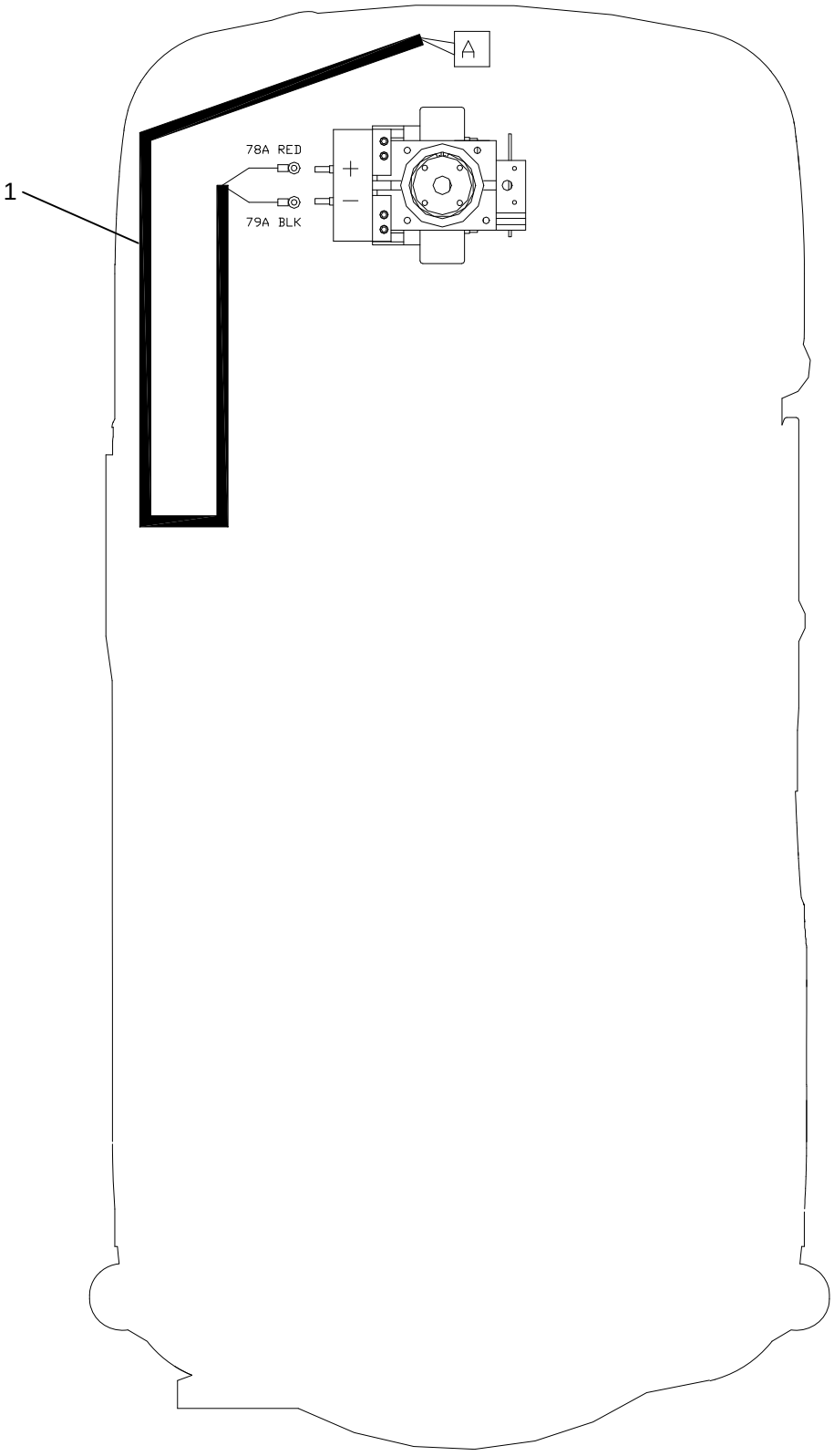
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86239500	880421	REF	HARNESS SRS UPPER		
2	86267290	880262	1	WIRE, 14” GRN/18 76008 X 76011		
3	86260310	82687	REF	WIRE, 4 X 77BK C. TERM X 5/16 RING		
4	86232040	830957	REF	CABLE, 4GA BLACK X 78.5”		
5	86239510	880422	1	HARNESS, GLIDE LCD		

NOTE: Maximum speed of machine can be decreased to 80% of maximum by disconnecting wire 3 white from wire 16 white. Machine is set at 100% speed setting at factory.



INDICATES OPTIONAL ACCESSORY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86239490	880378	1	HARNESS, CONTROL		
2	86239500	880421	REF	HARNESS, GLIDE TRIO +		
3	86239510	880422	REF	HARNESS, GLIDE LCD		


A
78A RED
79A BLK
1

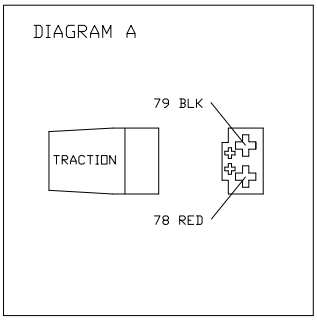
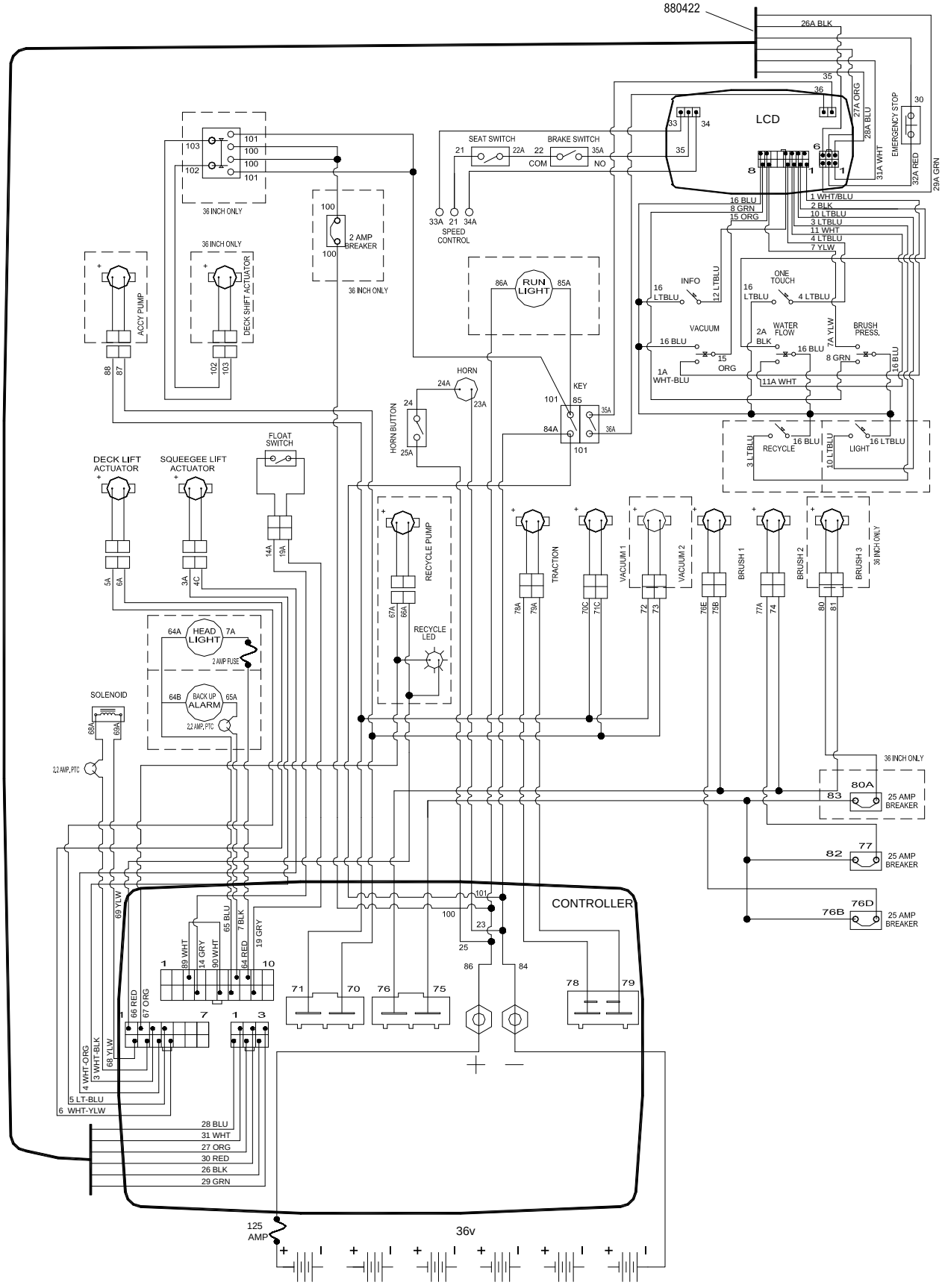


DIAGRAM A
79 BLK
TRACTION
78 RED

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86010870	880379	1	HARNESS, PROPEL		

WIRING DIAGRAM



PART NO.	PRV NO.	DESCRIPTION
86008790	80687	FUSE, 125 AMP
86009830	82528	SQUEEGEE, FRONT BLADE LINATEX
86009840	82529	SQUEEGEE, REAR BLADE LINATEX
86003690	34390	FILTER, VAC
86007420	730100	SQUEEGEE, SIDE BLADE LINATEX
86007580	730167	SQUEEGEE, 32 SIDE BLADE
86004860	48073	KEY, SWITCH
86005450	53799	VAC MOTOR ASM, 36VDC 3 STAGE
86230800	140550	MOTOR BRUSH SET, VAC AMETEK
86135310	140686	BRUSH SET, VAC 24V/36V WINDSOR
86001460	140552	BRUSH SET, DRIVE MOTOR
86001890	14418	BRUSH SET, SCRUB MOTOR
86009200	81535	KNOB, 3/8-16 4 PRONG ALUM
86002850	27343	CHAIN, #40, 1/2"P MASTER LINK
86007380	730088	SPACER, .5 OD X .26 ID X 1.5L
86005610	57016	NUT, 7/8 DIA PUSHLOCK
86007460	730122	SWITCH ASM, FLOAT
86001920	14607	BREAKER, 25A 50VDC CIRCUIT
86002010	14942	BOOT, 3/8 CIRCUIT BREAKER
86008900	80845	BOOT, SEAL-PUSH BUTTON
86004420	39609	HOSE ASM, 1.5 BLK VAC X 14
86007250	730000	40 MESH, STRAINER
86135480	83052	BRAKE PUCK
86010330	83053	BRAKE ANVIL

REF. NO.	MODEL: **SERIAL #**
1	SGJ32: **1000167297**
2	SGJ32: **1000160306**
3	SGJ32: **1000168775**
4	SGJ32: **1000136310**
5	SGJ32: **1000128511**
6	SGJ32: **1000161812**
7	10052530000001